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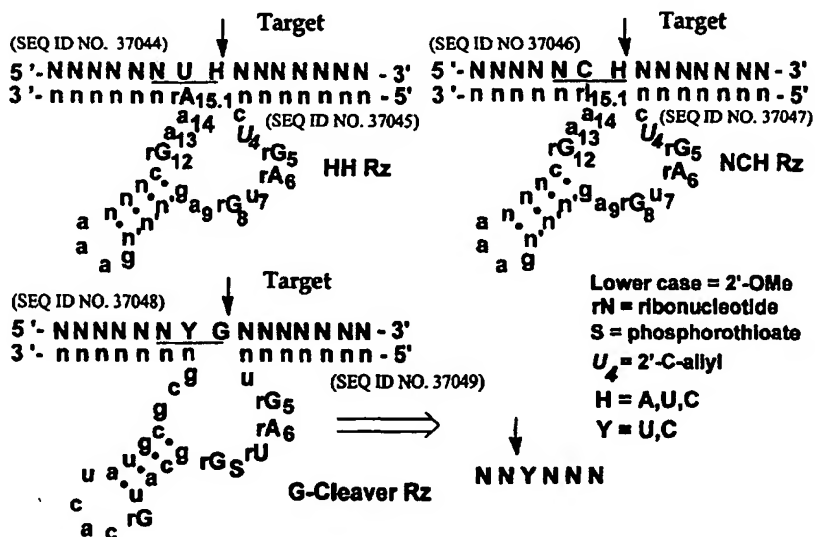
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(54) Title: **NUCLEIC ACID-BASED TREATMENT OF DISEASES OR CONDITIONS RELATED TO WEST NILE VIRUS INFECTION**

Examples of Nuclease Stable Ribozyme Motifs



(57) Abstract: The present invention relates to nucleic acid molecules (e.g., ribozymes, DNazymes, antisense oligonucleotides, triplex forming oligonucleotides, 2,5-A oligonucleotides, decoys) that modulate the expression and/or replication of West Nile Virus (WNV). The present invention also relates to chemical compositions, and methods of treatment of WNV infection and associated diseases, and conditions.



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NUCLEIC ACID-BASED TREATMENT OF DISEASES OR CONDITIONS RELATED TO
WEST NILE VIRUS INFECTION

TECHNICAL FIELD OF INVENTION

This invention relates to compositions, reagents and methods for the treatment of diseases or conditions relating to West Nile Virus (WNV) infection.

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BACKGROUND OF THE INVENTION

The following is a discussion of relevant art, none of which is admitted as prior art to the present invention.

West Nile Virus (WNV) is a Class IV virus, specifically a flavivirus, identified as a member of the Japanese encephalitis virus antigenic complex. WNV is a spherical, enveloped virus containing a positive single-stranded RNA genome. Flaviviridae group also includes such pathogens as hepatitis C virus, Kunjin virus, and viruses responsible for yellow fever, dengue fever, and St. Louis encephalitis. West Nile Virus subtypes are distinguishable by antigenic variations in the envelope (E) protein and by the presence of an N-glycosylation site (Asn-Tyr-Ser) at amino acids 154–156 (Jia, 1999, *Lancet*. 354;1971-2).

The genome of WNV is composed of 10,960 nucleotides. The 5'-terminus of the WNV genome contains a type 1 cap structure that is synthesized by RNA triphosphatase, guanylyltransferase and methyltransferase (Wengler and Wengler, 1993, *Virology*, 197m; 265-273). A conserved 3'-terminal stem loop of the viral genomic RNA has been shown to bind to translation elongation factor-1-alpha prior to replication (Blackwell and Brinton, 1997, *J. Virol.*, 71, 6433-6444). At least nine WNV encoded proteins have been identified, including the non-structural proteins NS 1, NS 2a, NS 2b, NS 3, NS 4b, and NS 5, along with C, M, and E structural proteins. The NS 3 protein has been shown to have RNA triphosphatase activity (Wengler and Wengler, *supra*). The WNV NS 5 protein has been shown to possess RNA-dependent RNA polymerase activity *in vitro* (Steffens *et al.*, 1999, *J. Gen. Virol.*, 80, 2583-2590).

WNV can be transmitted to humans and domestic animals through mosquitoes and migratory birds, that serve as amplifying hosts. Although WNV infection is generally asymptomatic in areas of the world where the virus is endemic, infected humans can incur a mild fever, rash, nausea, headache, disorientation and back pain. More serious complications from WNV infection include hepatitis, pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, and death, especially in the very young, sick, or elderly.

Virulence of different WNV strains can vary, and certain characteristics of the WNV can dictate susceptibility to CNS infection. One study of WNV infectivity in mice found decreased neuroinvasiveness in strain variants with glycosylated envelope proteins and among those strains with amino acid substitutions at residue 307 (Chambers *et al.*, 1998, *J. Gen. Virol.* 79:2375). Experimentally infected monkeys have demonstrated persistent neurologic infection (Pogodina *et al.*, 1983, *Arch. Virol.*, 75:71). Furthermore, human subjects who were subjected to WNV as an experimental cancer treatment and who died within approximately four weeks after such treatment showed viral infiltration of the spleen, lymph nodes, liver, and lungs, indicating disseminated infection by WNV in humans (Southam and Moore, 1951, *Am. J. Trop. Med.*, 31:724; Southam and Moore, 1954, *Am. J. Trop. Med. Hyg.*, 3:19).

The WNV incubation period manifests typically from 3 to 15 days, and the diagnosis of WNV has been confirmed by an enzyme immunoassay through IgM and IgG antibody detection (Tsai *et al.*, 1998, *Lancet*, 352:767). WNV has also been diagnosed by reverse transcriptase polymerase chain reaction (rtPCR) testing of CSF (Puri *et al.*, 1994, *Arch. Virol.*, 134:29).

The WNV infection has been reported in Africa, the Middle East, parts of Europe, the Soviet Union, South Asia and Australia (Savage *et al.*, 1999, *Am J Trop Med Hyg.*, 61:600). In one study involving 915 Egyptians, 6 percent of school children and 40 percent of young adults had antibodies to the WNV following a widespread fever outbreak in the general population (Corwin *et al.*, 1993, *Am J Trop Med Hyg.*, 48:776). Epidemics have also been reported in Israel, South Africa and parts of Europe. In a European outbreak in Romania in 1996, more than 500 cases were reported with a mortality rate of nearly 10 percent (Tsai *et al.*, 1998, *Lancet.*, 352:767 and Hubalek *et al.*, 1999, *Emerg Infect Dis.*, 5:643). Clinical manifestations of the virus in these Romanian patients included meningoencephalitis (44 percent), meningitis (40 percent), and encephalitis (16 percent). In addition, the symptoms

included fever (91 percent), headache (77 percent), neck stiffness (57 percent), vomiting (53 percent), confusion (34 percent) and coma (13 percent) (Tsai *et al.*, 1998, *Lancet.*, 532:767). The largest outbreak of the WNV to date occurred in 1974 in South Africa where nearly 3,000 cases were reported (McIntosh *et al.*, 1976, *South African Journal of Science.*, 72:295-300).

Outbreaks of WNV were not very common in the United States until 1999 when the virus caused seven deaths and 62 cases of encephalitis in New York. The outbreak of encephalitis in humans in the New York area in 1999 coincided with the death of several crows due to viscerotropic WNV infection. These avian infections were present in crows as far south as Baltimore (Anderson *et al.*, 1999, *Science.*, 286:2331). Recent reports indicate that WNV is spreading to other areas of the country as well.

Cloned from the human brain by reverse-transcriptase polymerase chain reaction, the genome of the WNV responsible for the 1999 New York outbreak was found as a lineage type I West Nile Virus. This particular strain of West Nile Virus (WNV; WNV-NY 1999) is closely related to strains previously isolated in the Middle East (Jia, 1999, *The Lancet*, 354:1971-1972).

Nearly the same time as the 1999 United States outbreak, an outbreak of meningoencephalitis caused by WNV infection occurred in Russia. This late summer outbreak was responsible for over 40 deaths out of about 1,000 reported cases. Analysis of brain tissue from five victims of this epidemic by reverse transcriptase-polymerase chain reaction confirmed the presence of WNV, as well as other flaviviruses, in each sample (Lvov *et al.*, 2000, *Emerging Infectious Diseases.*, 6:4).

After the outbreak of WNV in the United States in 1999, surveillance programs have detected increased transmission of the virus in birds and mosquitoes. In one recent case a person 78 years of age was hospitalized in Richmond County, New York for viral encephalitis and tested positive for WNV. Immunosorbent assay confirmed the presence of the IgM antibody in cerebrospinal fluid and serum samples of the individual (Novello *et al.*, 2000, *MMWR*, 49,31:714-717).

The elderly are particularly susceptible to encephalitis due to WNV infection. Other risk factors related to exposure to the virus include spending increased amounts of time

outdoors and being in the presence of a flooded areas, both places where increased contact with mosquitoes is likely (Han *et al.*, 1999, *J Infect Dis.*, 179:230).

In an attempt to prevent the spread of WNV through control of larval and adult mosquitoes, mapping, spraying and removal of breeding sites has been initiated in parts of New York and Connecticut (*Morb Mortal Wkly Rep.* 1999; 48:944). In addition, education programs have been suggested to make the public aware of WNV and its risk factors. Despite these efforts, WNV remains a threat due to its mode of transmission. At present, there is no vaccine or other known treatment for WNV infection. Accordingly there remains an unmet need for reagents and methods for the diagnosis of WNV infection. Further, there remains a need for reagents and methods for the treatment of WNV infection.

BRIEF SUMMARY OF THE INVENTION

The invention features novel nucleic acid-based molecules and techniques (e.g., enzymatic nucleic acid molecules (such as ribozymes, DNAzymes or allozymes), antisense nucleic acids, 2-5A antisense chimeras, triplex forming oligonucleotides, antisense nucleic acids containing RNA cleaving chemical groups, dsRNA and decoys) as well as methods for their use to detect and modulate the replication of WNV and WNV gene expression. In particular, enzymatic nucleic acid molecules capable of specifically cleaving WNV RNA are described. Also described are antisense nucleic acid molecules that specifically modulate the replication of WNV and the expression of the WNV genome. Such enzymatic and antisense nucleic acids can be used to diagnose and treat diseases associated with WNV infection, such as pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma, and cirrhosis.

The invention features the use of one or more of the nucleic acid-based molecules and techniques independently or in combination to modulate the replication of WNV and/or the expression of the genes encoded by the WNV genome. In one embodiment the invention features the use of nucleic acid-based molecules and techniques to inhibit the function of the West Nile Virus genome (GenBank accession Nos. AF196835, AF260969, AF260968, AF260967, NC_001563, AF206518, and AF202541).

The present invention features a nucleic acid molecule that modulates the replication of the West Nile Virus. In one embodiment, the nucleic acid molecule modulates the expression and/or function of RNA derived from the WNV. In a preferred embodiment, the nucleic acid molecule of the present invention is selected from the group consisting of

enzymatic nucleic acid, antisense nucleic acid, 2',5'-A nucleic acid, triplex forming nucleic acid, and decoy nucleic acid molecules.

In one embodiment, the nucleic acid molecule of the invention (*e.g.*, antisense or enzymatic nucleic acid molecule) comprises between 12 and 100 bases complementary to RNA of the WNV genome. In another embodiment, the nucleic acid molecule comprises between 14 and 24 bases complementary to RNA of the WNV genome. The nucleic acid molecule of the invention can be synthesized either enzymatically or chemically using methods described herein and other methods known in the art.

In yet another embodiment, the nucleic acid molecule of the invention can further comprise at least one sugar modification, nucleic acid base modification, phosphate backbone modification, or a combination thereof. The nucleic acid molecule of the invention can also comprise a cap structure, wherein the cap structure is at the 5'-end or 3'-end, or at both the 5'-end and the 3'-end of the nucleic acid molecule.

In one embodiment of the invention, the nucleic acid molecule is an enzymatic nucleic acid molecule. The enzymatic nucleic acid molecules of the invention are designed to cleave either the plus strand or the minus strand of WNV. The enzymatic nucleic acid molecules are also designed to cleave RNA derived from various genes encoding WNV proteins. The enzymatic nucleic acid of the invention contains one or more binding arms that comprise a sequence or sequences complementary to any sequence of WNV. In another embodiment, the enzymatic nucleic acid of the invention contains one or more binding arms that comprise a sequence or sequences complementary to any sequence(s) of SEQ ID NOs 1-7,372; 16,410-24,320; and 35,592-35,616. Examples of enzymatic nucleic acid molecules of the invention comprise the sequence of SEQ ID NOs 7,373-16,409; 24,321-35,591; or 35,617-35,641.

The enzymatic nucleic acid molecule of the invention can be in a hammerhead (HH), hairpin, hepatitis Delta virus, group I intron, VS nucleic acid, or RNase P nucleic acid configuration. The enzymatic nucleic acid molecule can also be in an Inozyme, G-cleaver, Zinzyme, or an Amberzyme configuration. The enzymatic nucleic acid molecule of the invention can also be a DNAzyme.

In one embodiment, the DNAzyme of the instant invention comprises at least ten 2'-O-methyl modifications. In another embodiment, the DNAzyme further comprises phosphorothioate linkages on at least one of the 5' terminal nucleotides. Said linkages are useful to improve nuclease stability. In another embodiment, the DNAzyme comprises a 3'-end modification (*e.g.*, 3',3'-inverted abasic and/or one or more phosphorothioate modifications). In another embodiment, the DNAzyme comprises at least ten 2'-O-methyl

modifications, phosphorothioate linkages on at least one of the 5' terminal nucleotides, and a 3'-end modification.

In another embodiment, the enzymatic nucleic acid molecule of the invention is a Hammerhead motif comprising at least one sequence complementary to any of the sequences shown as Substrate sequence in Tables III and VIII. In yet another embodiment, the enzymatic nucleic acid molecule of the invention is an Inozyme motif comprising at least one sequence complementary to any of the sequences shown as substrate sequence in Tables IV and IX. In another embodiment, the enzymatic nucleic acid molecule of the invention is a DNAzyme comprising at least one sequence complementary to any of the sequences shown as substrate sequences in Tables VI and XI. In another embodiment, the enzymatic nucleic acid molecule of the invention is a Zinzyme comprising at least one sequence complementary to any of the sequences shown as substrate sequence in Tables V and X. In another embodiment, the enzymatic nucleic acid molecule of the invention is an Amberzyme comprising at least one sequences complementary to any of the sequences shown as substrate sequences in Tables VII and XII.

In one embodiment, the enzymatic nucleic acid molecule contemplated by the instant invention comprises at least five ribose residues, at least ten 2'-*O*-methyl modifications, and a 3'- end modification (e.g., 3',3'-inverted abasic moiety, phosphorothioate, phosphorodithioate). In another embodiment, the enzymatic nucleic acid further comprises phosphorothioate modifications at the 5'-end (for example having 1, 2, 3, 4 or 5 phosphorothioates). In another embodiment the invention features an enzymatic nucleic acid molecule that does not require the presence of a ribonucleotide to be functional, for example, to cleave WNV RNA.

In another aspect of the invention, the nucleic acid molecule of the invention is an antisense nucleic acid molecule. The antisense nucleic acid molecule is designed to modulate either the plus strand or the minus strand of WNV. The antisense nucleic acid molecule are also designed to modulate RNA derived from various genes encoding WNV proteins. The antisense nucleic acid of the invention comprises a sequence complementary to any WNV sequence. For example, in some embodiments, the antisense nucleic acid of the invention comprises a sequence complementary to any of the sequences of SEQ ID NOs 1-7,372; 16,410-24,320; and 35,592-35,616.

In one embodiment, the antisense nucleic acid molecule of the instant invention comprises a phosphorothioate core with both 3' and 5' -end modifications. In one aspect of this embodiment, the 3' and/or 5'- end modification contemplated by the instant invention is a 3',3'-inverted abasic moiety and/or a 5',5'-inverted abasic moiety, respectively.

The invention also provides a method for modulating the replication of WNV in a cell comprising the step of contacting said cell with the nucleic acid molecule of claim 1 under conditions suitable for said down regulation of WNV replication. In addition the invention provides a method for down regulating the replication of WNV in a mammal comprising the step of administering to said infected mammal a nucleic acid of claim 1. In one embodiment of the disclosed methods, the modulation of replication of WNV in a cell or mammal results in the down-regulation of WNV replication in the cell or mammal.

In one embodiment, the invention features a method of modulating WNV activity in a cell, comprising the step of contacting the cell with the nucleic acid molecule of the invention, under conditions suitable for the modulation of WNV activity. In one embodiment, the modulation results in the reduction of WNV activity. In a further embodiment, the invention features a method of treating a patient having a condition associated with the level of WNV, comprising contacting cells of the patient with the nucleic acid molecule of the invention, under conditions suitable for the treatment. In one embodiment, the method of treating a patient having a condition associated with the level of WNV comprises the use of one or more therapies under conditions suitable for the treatment, in conjunction with the nucleic acid molecule.

In another embodiment, the method for treating a patient having a condition associated with the level of WNV comprises administering to the patient a nucleic acid molecule that modulates expression of RNA derived from the WNV genome in conjunction with one or more of other therapies, such as antiviral agents and interferons. In one embodiment of the described method, the WNV RNA expression is down-regulated.

The invention further relates to a method of cleaving WNV RNA, comprising contacting the nucleic acid molecule of the invention with WNV RNA under conditions suitable for the cleavage of WNV RNA. In another embodiment, the method of cleaving WNV RNA is carried out in the presence of a divalent cation. In one embodiment, for example, the divalent cation is Mg^{2+} .

The invention also contemplates a pharmaceutical composition comprising a nucleic acid molecule of the invention and a pharmaceutically acceptable carrier. In one embodiment, the invention features a kit for the treatment of a patient having a condition associated with the level of WNV, comprising the nucleic acid molecule of the invention. The invention also features a kit for detecting a level of WNV in a system, comprising the nucleic acid molecule of the invention.

The invention also features an expression vector comprising a nucleic acid sequence encoding one or more nucleic acid molecule (e.g, 1, 2, 3, 4 nucleic acid molecules) that can

be the same or different, of the invention (e.g., enzymatic nucleic acid and/or antisense), in a manner that allows expression of that nucleic acid molecule(s).

The nucleic acid-based molecules of the present invention are useful, alone or in combination with other therapies, for the prevention and/or treatment of diseases and conditions associated with WNV infection, such as pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma, cirrhosis, and any other diseases or conditions that are related to or respond to the levels of WNV in a cell or tissue.

The nucleic acid-based molecules of the invention can be added directly, or can be complexed with a delivery agent, such as a lipid, phospholipid, cationic lipid, packaged within a liposome(s), or otherwise delivered to target cells or tissues using the methods described herein and known in the art. The nucleic acid or nucleic acid complexes can be locally administered to relevant tissues *ex vivo* or *in vivo* through injection, infusion pump or stent, with or without their incorporation in biopolymers. In one embodiment, the enzymatic nucleic acid molecule comprises one or more sequences that are complementary to the substrate sequences in **Tables III to XIII**. Examples of the inventive enzymatic nucleic acid molecules comprise sequences which are also shown in **Tables III to XIII**.

In one embodiment, the invention features a method of administering to a cell, for example a mammalian cell or human cell, an enzymatic nucleic acid molecule of the invention comprising contacting the cell with the enzymatic nucleic acid molecule under conditions suitable for administration. The method of administration can be in the presence of a delivery reagent, for example, a lipid, cationic lipid, phospholipid, or liposome. In another embodiment, the invention features a method of administering to a cell an expression vector comprising a nucleic acid sequence encoding one or more nucleic acid molecules of the invention comprising contacting the cell with said vector under conditions suitable for administration.

Other features and advantages of the invention will be apparent from the following description of the preferred embodiments thereof, and from the claims.

BRIEF DESCRIPTION OF THE FIGURES

Figure 1 shows examples of chemically stabilized enzymatic nucleic acid motifs. "HH" represents hammerhead enzymatic nucleic acid motif (Usman *et al.*, 1996, *Curr. Op. Struct. Bio.*, 1, 527); "NCH" represents the NCH enzymatic nucleic acid motif (Ludwig & Sproat, International PCT Publication No. WO 98/58058); "G-Cleaver" represents G-cleaver

enzymatic nucleic acid motif (Kore *et al.*, 1998, *Nucleic Acids Research* 26, 4116-4120). "N" or "n" represent independently a nucleotide that can be same or different and have complementarity to each other; "rI", represents ribo-Inosine nucleotide; arrow indicates the site of cleavage within the target. Position 4 of the HH Rz and the NCH Rz is shown as having 2'-C-allyl modification, but those skilled in the art will recognize that this position can be modified with other modifications well known in the art, so long as such modifications do not significantly inhibit the activity of the enzymatic nucleic acid.

Figure 2 shows an example of the Amberzyme enzymatic nucleic acid molecule motif that is chemically stabilized (see for example Beigelman *et al.*, International PCT publication No. WO 99/55857). The Amberzyme motif is a class of enzymatic nucleic molecules that do not require the presence of a ribonucleotide (2'-OH) group for its activity.

Figure 3 shows an example of the Zinzyme A enzymatic nucleic acid molecule motif that is chemically stabilized (see for example Beigelman *et al.*, Beigelman *et al.*, International PCT publication No. WO 99/55857). The Zinzyme motif is a class of enzymatic nucleic molecules that do not require the presence of a ribonucleotide (2'-OH) group for its activity.

Figure 4 shows an example of a DNAzyme motif (*e.g.*, "10-23") described by Santoro *et al.*, 1997, *PNAS*, 94, 4262.

DETAILED DESCRIPTION OF THE INVENTION

Due to sequence variability of the WNV genome, it is preferable to target the conserved regions of the WNV genome with the nucleic acid molecules of the instant invention. Accordingly, the present invention describes nucleic acid molecules targeting the conserved regions of the WNV genome. Conserved regions of the WNV genome include the 39-UTR, E, NS3, and NS5 regions. Nucleic acid molecules designed against these and other conserved regions of various WNV isolates enable, for example the down regulation of WNV replication in diverse patient populations, as well as ensure the effectiveness of the nucleic acid molecules against WNV quasi species that evolve due to mutations in the non-conserved regions of the WNV genome. For instance, a single nucleic acid molecule (such as an enzymatic nucleic acid molecule) can be targeted to inhibit all known strains and variants of WNV by targeting the nucleic acid to a conserved sequence present in all WNV genomes.

The present invention relates to a nucleic acid molecule that modulates the replication of WNV. For example, the nucleic acid molecule can be an enzymatic nucleic acid, an allozyme, an antisense nucleic acid, a 2', 5'-A nucleic acid, triplex forming nucleic acid, dsRNA, siRNA or decoy nucleic acid molecule.

In one embodiment of the present invention, a nucleic acid molecule of the instant invention can be between 12 and 100 nucleotides in length. Exemplary enzymatic nucleic acid molecules of the invention are shown in **Table III-XIII**. For example, enzymatic nucleic acid molecules of the invention can be between 15 and 50 nucleotides in length, and in another embodiment between 25 and 40 nucleotides in length, *e.g.*, 34, 36, or 38 nucleotides in length (for example see Jarvis *et al.*, 1996, *J. Biol. Chem.*, 271, 29107-29112). Exemplary DNAzymes of the invention can be between 15 and 40 nucleotides in length, and in one embodiment, between 25 and 35 nucleotides in length, *e.g.*, 29, 30, 31, or 32 nucleotides in length (see, *e.g.*, Santoro *et al.*, 1998, *Biochemistry*, 37, 13330-13342; Chartrand *et al.*, 1995, *Nucleic Acids Research*, 23, 4092-4096). Exemplary antisense molecules of the invention can be between 15 and 75 nucleotides in length, and in one embodiment between 20 and 35 nucleotides in length, *e.g.*, 25, 26, 27, or 28 nucleotides in length (see for example Woolf *et al.*, 1992, *PNAS*, 89, 7305-7309; Milner *et al.*, 1997, *Nature Biotechnology*, 15, 537-541). Exemplary triplex forming oligonucleotide molecules of the invention are between 10 and 40 nucleotides in length, and in one embodiment are between 12 and 25 nucleotides in length, *e.g.*, 18, 19, 20, or 21 nucleotides in length (see for example Maher *et al.*, 1990, *Biochemistry*, 29, 8820-8826; Strobel and Dervan, 1990, *Science*, 249, 73-75). Those skilled in the art will recognize that all that is required is for the nucleic acid molecule to be of length and conformation sufficient and suitable for the nucleic acid molecule to catalyze a reaction contemplated herein. The length of the nucleic acid molecules of the instant invention are not limiting within the general limits stated.

The invention relates to a class of nucleic acid-based molecules that exhibit a high degree of specificity for the RNA of a desired target, such as WNV RNA. In one embodiment, the enzymatic nucleic acid molecule is targeted to a highly conserved sequence region of RNA encoding the WNV genome and/or proteins, such that specific treatment of a disease or condition associated with WNV is provided using one or more nucleic acid molecules of the invention. In addition, the nucleic acid based molecule can be targeted to RNAs that share homology with the WNV gene. The nucleic acid molecules of the invention can be delivered exogenously to specific tissue or cellular targets as required. Alternatively, the nucleic acid molecules (*e.g.*, enzymatic nucleic acids and antisense) can be expressed from DNA and/or RNA vectors that are delivered to specific cells.

In yet another embodiment, the invention features antisense nucleic acid molecules, dsRNA, and 2-5A chimera including sequences complementary to the substrate sequences shown in **Tables III to XIII**. Such nucleic acid molecules can include sequences as shown for the binding arms of the enzymatic nucleic acid molecules in **Tables III to XIII**. Similarly, triplex molecules targeted to the corresponding DNA target regions, and containing the DNA equivalent of a target sequence or a sequence complementary to the specified target

(substrate) sequence are provided. Typically, antisense molecules are complementary to a target sequence along a single contiguous sequence of the antisense molecule. However, in certain embodiments, the antisense molecule can bind to substrate such that the substrate molecule forms a loop, and/or the antisense molecule binds such that the antisense molecule forms a loop. Thus, the antisense molecule can be complementary to two or more non-contiguous substrate sequences, or two or more non-contiguous sequence portions of an antisense molecule can be complementary to a target sequence, or both.

The nucleic acid molecules of the present invention can be expressed from transcription units inserted into DNA or RNA vectors. The recombinant vectors can be DNA plasmids or viral vectors. Enzymatic nucleic acid or antisense expressing viral vectors can be constructed based on, but not limited to, adeno-associated virus, retrovirus, adenovirus, or alphavirus. In one embodiment, the recombinant vectors capable of expressing the enzymatic nucleic acids or antisense are delivered as described herein, and persist in target cells. Alternatively, viral vectors can be used that provide for transient expression of enzymatic nucleic acids or antisense. Such vectors can be repeatedly administered as necessary. Once expressed, the enzymatic nucleic acids or antisense bind to the target RNA and modulate its function or expression. Delivery of enzymatic nucleic acid or antisense expressing vectors can be systemic, such as by intravenous or intramuscular administration, by administration to target cells ex-planted from the patient followed by reintroduction into the patient, or by any other means that would allow for introduction into the desired target cell. Antisense DNA or DNazymes can be expressed endogenously via the use of a single stranded DNA intracellular expression vector.

The nucleic acid molecules of the instant invention, individually, or in combination or in conjunction with other drugs, can be used to treat diseases or conditions discussed herein. For example, to treat a disease or condition associated with the levels of WNV, the nucleic acid molecules can be administered to a patient or can be administered to other appropriate cells evident to those skilled in the art, individually or in combination with one or more drugs under conditions suitable for the treatment.

In a further embodiment, the described molecules, such as antisense or enzymatic nucleic acids, can be used in combination with other known treatments to treat conditions. For example, the described molecules can be used in combination with one or more known therapeutic agents to treat WNV infection, pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma, cirrhosis, and/or other disease states associated with WNV infection.

In another embodiment, the invention features nucleic acid-based inhibitors (e.g., enzymatic nucleic acid molecules, antisense nucleic acids, 2-5A antisense chimeras, triplex

forming oligonucleotides, antisense nucleic acids containing RNA cleaving chemical groups) and methods for their use to down regulate or inhibit the expression of genes (e.g., WNV) capable of progression and/or maintenance of WNV infection, pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma, cirrhosis, and/or other disease states; associated with WNV infection. Such genes can be cellular genes that are involved, and/or essential for the replication and/or propagation of WNV. Nucleic acid molecules targeting such cellular gene expression is useful in the modulation of WNV replication and/or propagation.

By "modulate" is meant that the expression of the gene, or level of RNA molecules or equivalent RNA molecules encoding one or more WNV protein or WNV protein subunits, or activity of one or more WNV protein or WNV protein subunits is up-regulated or down-regulated, such that the expression, level, or activity is greater than or less than that observed in the absence of a nucleic acid molecule of the invention.

By "inhibit", "down-regulate", or "reduce", it is meant that the expression of the gene, or level of RNA molecules or equivalent RNA molecules encoding one or more proteins or protein subunits, or activity of one or more proteins or protein subunits, such as WNV proteins or WNV subunit(s), is reduced below that observed in the absence of the nucleic acid molecules of the invention. In one embodiment, inhibition, down-regulation or reduction with an enzymatic nucleic acid molecule is below that level observed in the presence of an enzymatically inactive or attenuated molecule that is able to bind to the same site on the target RNA molecule, but is unable to cleave that RNA molecule. In another embodiment, inhibition, down-regulation, or reduction with antisense oligonucleotides is below that level observed in the presence of, for example, an oligonucleotide with scrambled sequence or with mismatches. In another embodiment, inhibition, down-regulation, or reduction of WNV with a nucleic acid molecule of the instant invention is greater in the presence of the nucleic acid molecule than in its absence.

By "up-regulate" is meant that the expression of a gene, or level of RNA molecules or equivalent RNA molecules encoding one or more proteins, protein subunits, or activity of one or more proteins or protein subunits, such as WNV proteins or WNV subunits, is greater than that observed in the absence of the nucleic acid molecules of the invention. For example, the expression of a gene, such as a WNV gene, can be increased in order to treat, prevent, ameliorate, or modulate a pathological condition caused or exacerbated by an absence or low level of gene expression.

By "enzymatic nucleic acid molecule" it is meant a nucleic acid molecule that has complementarity in a substrate binding region to a specified gene target, and also has an enzymatic activity that is active to specifically cleave target a RNA molecule. That is, the

enzymatic nucleic acid molecule is able to intermolecularly cleave a RNA molecule and thereby inactivate a target RNA molecule. These complementary regions allow sufficient hybridization of an enzymatic nucleic acid molecule to a target RNA molecule and thus permit cleavage. One hundred percent complementarity is preferred, but complementarity as low as 50-75% can also be useful in this invention (see for example Werner and Uhlenbeck, 1995, *Nucleic Acids Research*, 23, 2092-2096; Hammann *et al.*, 1999, *Antisense and Nucleic Acid Drug Dev.*, 9, 25-31). The nucleic acids can be modified at the base, sugar, and/or phosphate groups. The term enzymatic nucleic acid is used interchangeably with phrases such as ribozymes, catalytic RNA, enzymatic RNA, catalytic DNA, aptazyme or aptamer-binding ribozyme, regulatable ribozyme, catalytic oligonucleotides, nucleozyme, DNAzyme, RNA enzyme, endoribonuclease, endonuclease, minizyme, leadzyme, oligozyme or DNA enzyme. All of these terminologies describe nucleic acid molecules with enzymatic activity. The specific enzymatic nucleic acid molecules described in the instant application are not limiting in the invention and those skilled in the art will recognize that all that is important in an enzymatic nucleic acid molecule of this invention is that it has a specific substrate binding site that is complementary to one or more of the target nucleic acid regions, and that it have nucleotide sequences within or surrounding that substrate binding site which impart a nucleic acid cleaving and/or ligation activity to the molecule (Cech *et al.*, U.S. Patent No. 4,987,071; Cech *et al.*, 1988, 260 *JAMA* 3030).

By "nucleic acid molecule" as used herein is meant a molecule comprising nucleotides. The nucleic acid can be single, double, or multiple stranded and can comprise modified or unmodified nucleotides or non-nucleotides or various mixtures and combinations thereof.

By "enzymatic portion" or "catalytic domain" is meant that portion/region of the enzymatic nucleic acid molecule essential for cleavage of a nucleic acid substrate (for example, see **Figures 1-4**).

By "substrate binding arm" or "substrate binding domain" is meant that portion/region of a enzymatic nucleic acid that is able to interact, for example, via complementarity (*i.e.*, able to base-pair with), with a portion of its substrate. Such complementarity can be 100%, but can be less if desired. For example, as few as 10 bases out of 14 can be base-paired (see for example Werner and Uhlenbeck, 1995, *Nucleic Acids Research*, 23, 2092-2096; Hammann *et al.*, 1999, *Antisense and Nucleic Acid Drug Dev.*, 9, 25-31). Examples of such arms are shown generally in **Figures 1-4**. That is, these arms contain sequences within a enzymatic nucleic acid that are intended to bring enzymatic nucleic acid and target RNA together through complementary base-pairing interactions. The enzymatic nucleic acid of the invention can have binding arms that are contiguous or non-contiguous and can be of varying lengths. The length of the binding arm(s) can be greater than or equal to four nucleotides and

of sufficient length to stably interact with a target RNA; in one embodiment they can be 12-100 nucleotides; in another embodiment they can be 14-24 nucleotides long (see for example Werner and Uhlenbeck, *supra*; Hamman *et al.*, *supra*; Hampel *et al.*, EP0360257; Berzal-Herranz *et al.*, 1993, *EMBO J.*, 12, 2567-73) or between 8 and 14 nucleotides long. If two binding arms are chosen, the design is such that the length of the binding arms are symmetrical (*i.e.*, each of the binding arms is of the same length; *e.g.*, four and four, five and five nucleotides, or six and six nucleotides, or seven and seven nucleotides long) or asymmetrical (*i.e.*, the binding arms are of different length; *e.g.*, three and five, six and three nucleotides; three and six nucleotides long; four and five nucleotides long; four and six nucleotides long; four and seven nucleotides long; and the like).

By "Inozyme" or "NCH" motif or configuration is meant, an enzymatic nucleic acid molecule comprising a motif as is generally described as NCH Rz in Figure 2. Inozymes possess endonuclease activity to cleave RNA substrates having a cleavage triplet NCH/, where N is a nucleotide, C is cytidine and H is adenosine, uridine or cytidine, and / represents the cleavage site. H is used interchangeably with X. Inozymes can also possess endonuclease activity to cleave RNA substrates having a cleavage triplet NCN/, where N is a nucleotide, C is cytidine, and / represents the cleavage site. "T" in Figure 2 represents an Inosine nucleotide, including a ribo-Inosine or xylo-Inosine nucleoside.

By "G-cleaver" motif or configuration is meant, an enzymatic nucleic acid molecule comprising a motif as is generally described as G-cleaver Rz in Figure 2. G-cleavers possess endonuclease activity to cleave RNA substrates having a cleavage triplet NYN/, where N is a nucleotide, Y is uridine or cytidine and / represents the cleavage site. G-cleavers can be chemically modified as is generally shown in Figure 2.

By "zinzyme" motif or configuration is meant, an enzymatic nucleic acid molecule comprising a motif as is generally described in Figure 4. Zinzymes possess endonuclease activity to cleave RNA substrates having a cleavage triplet including but not limited to, YG/Y, where Y is uridine or cytidine, and G is guanosine and / represents the cleavage site. Zinzymes can be chemically modified to increase nuclease stability through substitutions as are generally shown in Figure 4, including substituting 2'-O-methyl guanosine nucleotides for guanosine nucleotides. In addition, differing nucleotide and/or non-nucleotide linkers can be used to substitute the 5'-gaaa-2' loop shown in the figure. Zinzymes represent a non-limiting example of an enzymatic nucleic acid molecule that does not require a ribonucleotide (2'-OH) group within its own nucleic acid sequence for activity.

By "amberzyme" motif or configuration is meant, an enzymatic nucleic acid molecule comprising a motif as is generally described in Figure 3. Amberzymes possess endonuclease activity to cleave RNA substrates having a cleavage triplet NG/N, where N is a nucleotide, G

is guanosine, and / represents the cleavage site. Amberzymes can be chemically modified to increase nuclease stability through substitutions as are generally shown in Figure 3. In addition, differing nucleoside and/or non-nucleoside linkers can be used to substitute the 5'-gaaa-3' loops shown in the figure. Amberzymes represent a non-limiting example of an enzymatic nucleic acid molecule that does not require a ribonucleotide (2'-OH) group within its own nucleic acid sequence for activity.

By 'DNAzyme' is meant, an enzymatic nucleic acid molecule that does not require the presence of a 2'-OH group within its own nucleic acid sequence for activity. In particular embodiments, the enzymatic nucleic acid molecule can have an attached linker or linkers or other attached or associated groups, moieties, or chains containing one or more nucleotides with 2'-OH groups. DNAzymes can be synthesized chemically or expressed endogenously *in vivo*, by means of a single stranded DNA vector or equivalent thereof. An example of a DNAzyme is shown in Figure 5 and is generally reviewed in Usman *et al.*, US patent No., 6,159,714; Chartrand *et al.*, 1995, *NAR* 23, 4092; Breaker *et al.*, 1995, *Chem. Bio.* 2, 655; Santoro *et al.*, 1997, *PNAS* 94, 4262; Breaker, 1999, *Nature Biotechnology*, 17, 422-423; and Santoro *et al.*, 2000, *J. Am. Chem. Soc.*, 122, 2433-39. The "10-23" DNAzyme motif is one particular type of DNAzyme that was evolved using *in vitro* selection (see Santoro *et al.*, *supra*). Additional DNAzyme motifs can be selected for using techniques similar to those described in these references, and hence, are within the scope of the present invention.

By "sufficient length" is meant an oligonucleotide of greater than or equal to 3 nucleotides in length and long enough to provide the intended function (such as binding) under the expected condition. For example, for binding arms of enzymatic nucleic acid "sufficient length" means that the binding arm sequence is long enough to provide stable binding to a target site under the expected reaction conditions and environment. The binding arms are not so long as to prevent useful turnover of the nucleic acid molecule.

By "stably interact" is meant interaction of the oligonucleotides with target nucleic acid (*e.g.*, by forming hydrogen bonds with complementary nucleotides in the target under physiological conditions) that is sufficient for the intended purpose (*e.g.*, cleavage of target RNA by an enzyme).

By RNA "equivalent" to WNV is meant to include any naturally occurring RNA molecule having a degree of homology (partial or complete, for example 70% to 100% homology) with an RNA molecule encoding a WNV protein or an RNA encoding a protein with similar function as a WNV protein in various organisms, including, for example, human, birds, rodent, primate, and other organisms and parasites. The equivalent RNA sequence can include in addition to the coding region, regions such as 5'-untranslated region, 3'-

untranslated region, introns, intron-exon junction and the like. By "homology" or "degree of homology" is meant the degree to which the nucleotide sequence of two or more nucleic acid molecules that are partially or completely identical.

By "antisense nucleic acid", it is meant a non-enzymatic nucleic acid molecule that binds to target RNA by means of RNA-RNA or RNA-DNA or RNA-PNA (protein nucleic acid; Egholm *et al.*, 1993 *Nature* 365, 566) interactions and alters the activity of the target RNA (for a review, see Stein and Cheng, 1993 *Science* 261, 1004 and Woolf *et al.*, US patent No. 5,849,902). Typically, antisense molecules are complementary to a target sequence along a single contiguous sequence of the antisense molecule. However, in certain embodiments, an antisense molecule can bind to substrate such that the substrate molecule forms a loop, and/or an antisense molecule can bind such that the antisense molecule forms a loop. Thus, the antisense molecule can be complementary to two or more non-contiguous substrate sequences or two or more non-contiguous sequence portions of an antisense molecule can be complementary to a target sequence, or both. For a review of current antisense strategies, see Schmajuk *et al.*, 1999, *J. Biol. Chem.*, 274, 21783-21789, Delibas *et al.*, 1997, *Nature*, 15, 751-753, Stein *et al.*, 1997, *Antisense N. A. Drug Dev.*, 7, 151, Crooke, 2000, *Methods Enzymol.*, 313, 3-45; Crooke, 1998, *Biotech. Genet. Eng. Rev.*, 15, 121-157, Crooke, 1997, *Ad. Pharmacol.*, 40, 1-49. In addition, antisense DNA can be used to target RNA by means of DNA-RNA interactions, thereby activating RNase H, that digests the target RNA in the duplex. The antisense oligonucleotides can comprise one or more RNase H activating region that is capable of activating RNase H cleavage of a target RNA. Antisense DNA can be synthesized chemically or expressed via the use of a single stranded DNA expression vector or equivalent thereof.

By "RNase H activating region" is meant a region (generally greater than or equal to 4-25 nucleotides in length, and in one embodiment from 5-11 nucleotides in length) of a nucleic acid molecule capable of binding to a target RNA to form a non-covalent complex that is recognized by cellular RNase H enzyme (see for example Arrow *et al.*, US 5,849,902; Arrow *et al.*, US 5,989,912). The RNase H enzyme binds to the nucleic acid molecule-target RNA complex and cleaves the target RNA sequence. The RNase H activating region comprises, for example, phosphodiester, phosphorothioate (for example, at least four of the nucleotides are phosphorothioate substitutions; and in another embodiment, 4-11 of the nucleotides are phosphorothioate substitutions); phosphorodithioate, 5'-thiophosphate, or methylphosphonate backbone chemistry or a combination thereof. In addition to one or more backbone chemistries described above, the RNase H activating region can also comprise a variety of sugar chemistries. For example, the RNase H activating region can comprise deoxyribose, arabinose, fluoroarabinose or a combination thereof, nucleotide sugar chemistry. Those skilled in the art will recognize that the foregoing are non-limiting examples and that

any combination of phosphate, sugar and base chemistry of a nucleic acid that supports the activity of RNase H enzyme is within the scope of the definition of the RNase H activating region and the instant invention.

By "2-5A antisense chimera" is meant an antisense oligonucleotide containing a 5'-phosphorylated 2'-5'-linked adenylate residue. These chimeras bind to target RNA in a sequence-specific manner and activate a cellular 2-5A-dependent ribonuclease that, in turn, cleaves the target RNA (Torrence *et al.*, 1993 *Proc. Natl. Acad. Sci. USA* 90, 1300; Silverman *et al.*, 2000, *Methods Enzymol.*, 313, 522-533; Player and Torrence, 1998, *Pharmacol. Ther.*, 78, 55-113).

By "triplex forming oligonucleotides" is meant an oligonucleotide that can bind to a double-stranded DNA in a sequence-specific manner to form a triple-strand helix. Formation of such triple helix structure has been shown to inhibit transcription of the targeted gene (Duval-Valentin *et al.*, 1992 *Proc. Natl. Acad. Sci. USA* 89, 504; Fox, 2000, *Curr. Med. Chem.*, 7, 17-37; Praseuth *et al.*, 2000, *Biochim. Biophys. Acta*, 1489, 181-206).

By "gene" it is meant a nucleic acid that encodes an RNA, for example, nucleic acid sequences including, but not limited to, structural genes encoding a polypeptide.

By "WNV proteins" is meant, a protein or a mutant protein derivative thereof, comprising a protein/peptide encoded by WNV RNA.

"Complementarity" refers to the ability of a nucleic acid to form hydrogen bond(s) with another RNA molecule by either traditional Watson-Crick or other non-traditional types. In reference to the nucleic molecules of the present invention, the binding free energy for a nucleic acid molecule with its target or complementary sequence is sufficient to allow the relevant function of the nucleic acid to proceed, e.g., enzymatic nucleic acid cleavage, antisense or triple helix inhibition. Determination of binding free energies for nucleic acid molecules is well known in the art (see, e.g., Turner *et al.*, 1987, *CSH Symp. Quant. Biol.* LII pp.123-133; Frier *et al.*, 1986, *Proc. Nat. Acad. Sci. USA* 83:9373-9377; Turner *et al.*, 1987, *J. Am. Chem. Soc.* 109:3783-3785). A percent complementarity indicates the percentage of contiguous residues in a nucleic acid molecule that can form hydrogen bonds (e.g., Watson-Crick base pairing) with a second nucleic acid sequence (e.g., 5, 6, 7, 8, 9, 10 out of 10 being 50%, 60%, 70%, 80%, 90%, and 100% complementary). "Perfectly complementary" means that all the contiguous residues of a nucleic acid sequence will hydrogen bond with the same number of contiguous residues in a second nucleic acid sequence.

By "RNA" is meant a molecule comprising at least one ribonucleotide residue. By "ribonucleotide" or "2'-OH" is meant a nucleotide with a hydroxyl group at the 2' position of a β -D-ribo-furanose moiety.

By "decoy RNA" is meant a RNA molecule that mimics the natural binding domain for a ligand. The decoy RNA therefore competes with natural binding target for the binding of a specific ligand. For example, it has been shown that over-expression of HIV trans-activation response (TAR) RNA can act as a "decoy" and efficiently binds HIV tat protein, thereby preventing it from binding to TAR sequences encoded in the HIV RNA (Sullenger et al., 1990, *Cell*, 63, 601-608). This is but a specific example and those in the art will recognize that other embodiments can be readily generated using techniques generally known in the art, see for example Gold *et al.*, 1995, *Annu. Rev. Biochem.*, 64, 763; Brody and Gold, 2000, *J. Biotechnol.*, 74, 5; Sun, 2000, *Curr. Opin. Mol. Ther.*, 2, 100; Kusser, 2000, *J. Biotechnol.*, 74, 27; Hermann and Patel, 2000, *Science*, 287, 820; and Jayasena, 1999, *Clinical Chemistry*, 45, 1628.

The term "double stranded RNA" or "dsRNA" as used herein refers to a double stranded RNA molecule capable of RNA interference, including short interfering RNA "siRNA" (see, e.g., Bass, 2001, *Nature*, 411, 428-429; Elbashir et al., 2001, *Nature*, 411, 494-498).

The term "allozyme" as used herein refers to an allosteric enzymatic nucleic acid molecule, see, e.g., George *et al.*, US Patent Nos. 5,834,186 and 5,741,679, Shih *et al.*, US Patent No. 5,589,332, Nathan *et al.*, US Patent No 5,871,914, Nathan and Ellington, International PCT publication No. WO 00/24931, Breaker *et al.*, International PCT Publication Nos. WO 00/26226 and 98/27104, and Sullenger *et al.*, International PCT publication No. WO 99/29842. The term "2-5A chimera" as used herein refers to an oligonucleotide containing a 5'-phosphorylated 2'-5'-linked adenylate residue. These chimeras bind to target RNA in a sequence-specific manner and activate a cellular 2-5A-dependent ribonuclease which, in turn, cleaves the target RNA (Torrence *et al.*, 1993 *Proc. Natl. Acad. Sci. USA* 90, 1300; Silverman *et al.*, 2000, *Methods Enzymol.*, 313, 522-533; Player and Torrence, 1998, *Pharmacol. Ther.*, 78, 55-113).

The term "triplex forming oligonucleotides" as used herein refers to an oligonucleotide that can bind to a double-stranded DNA in a sequence-specific manner to form a triple-strand helix. Formation of such triple helix structure has been shown to inhibit transcription of the targeted gene (Duval-Valentin *et al.*, 1992 *Proc. Natl. Acad. Sci. USA* 89, 504; Fox, 2000, *Curr. Med. Chem.*, 7, 17-37; Praseuth *et al.*, 2000, *Biochim. Biophys. Acta*, 1489, 181-206).

By "vectors" is meant any nucleic acid and/or viral-based molecule used to deliver a desired nucleic acid.

By "patient" is meant an organism that is a donor or recipient of explanted cells or the cells themselves. "Patient" also refers to an organism to that the nucleic acid molecules of the

invention can be administered. In one embodiment, a patient can be a mammal or mammalian cells. In another embodiment, a patient is a human or human cells.

By "enhanced enzymatic activity" is meant to include activity measured *in vitro* and/or *in vivo* where the activity is a reflection of both the catalytic activity and the stability of the nucleic acid molecules of the invention. In this invention, the product of these activities can be increased *in vitro* and/or *in vivo* compared to an all RNA enzymatic nucleic acid or an all DNA enzyme. In some cases, the activity or stability of the nucleic acid molecule can be decreased (i.e., less than ten-fold), but the overall activity of the nucleic acid molecule is enhanced, *in vitro* and/or *in vivo*.

By "cap structure" is meant chemical modifications that have been incorporated at either terminus of the oligonucleotide (see for example Wincott *et al.*, WO 97/26270, incorporated by reference herein). These terminal modifications protect the nucleic acid molecule from exonuclease degradation, and can help in delivery and/or localization within a cell. The cap can be present at the 5'-terminus (5'-cap) or at the 3'-terminus (3'-cap) or can be present on both terminus. In non-limiting examples, the 5'-cap is selected from the group consisting of inverted abasic residue (moiety), 4',5'-methylene nucleotide; 1-(beta-D-erythrofuransyl) nucleotide, 4'-thio nucleotide, carbocyclic nucleotide; 1,5-anhydrohexitol nucleotide; L-nucleotides; alpha-nucleotides; modified base nucleotide; phosphorodithioate linkage; *threo*-pentofuransyl nucleotide; acyclic 3',4'-seco nucleotide; acyclic 3,4-dihydroxybutyl nucleotide; acyclic 3,5-dihydroxypentyl nucleotide, 3'-3'-inverted nucleotide moiety; 3'-3'-inverted abasic moiety; 3'-2'-inverted nucleotide moiety; 3'-2'-inverted abasic moiety; 1,4-butanediol phosphate; 3'-phosphoramidate; hexylphosphate; aminohexyl phosphate; 3'-phosphate; 3'-phosphorothioate; phosphorodithioate; or bridging or non-bridging methylphosphonate moiety (for more details see Wincott *et al.*, International PCT publication No. WO 97/26270, incorporated by reference herein). In yet another preferred embodiment the 3'-cap is selected from a group comprising, 4',5'-methylene nucleotide; 1-(beta-D-erythrofuransyl) nucleotide; 4'-thio nucleotide, carbocyclic nucleotide; 5'-amino-alkyl phosphate; 1,3-diamino-2-propyl phosphate, 3-aminopropyl phosphate; 6-aminohexyl phosphate; 1,2-aminododecyl phosphate; hydroxypentyl phosphate; 1,5-anhydrohexitol nucleotide; L-nucleotide; alpha-nucleotide; modified base nucleotide; phosphorodithioate; *threo*-pentofuransyl nucleotide; acyclic 3',4'-seco nucleotide; 3,4-dihydroxybutyl nucleotide; 3,5-dihydroxypentyl nucleotide, 5'-5'-inverted nucleotide moiety; 5'-5'-inverted abasic moiety; 5'-phosphoramidate; 5'-phosphorothioate; 1,4-butanediol phosphate; 5'-amino; bridging

and/or non-bridging 5'-phosphoramidate, phosphorothioate and/or phosphorodithioate, bridging or non bridging methylphosphonate and 5'-mercapto moieties (see Beaucage and Iyer, 1993, *Tetrahedron* 49, 1925; incorporated by reference herein).

An "alkyl" group refers to a saturated aliphatic hydrocarbon, including straight-chain, branched-chain, and cyclic alkyl groups. The alkyl group can have, for example, 1 to 12 carbons. In one embodiment of the invention, the alkyl group is a lower alkyl of from 1 to 7 carbons. In another embodiment the alkyl group is 1 to 4 carbons. The alkyl group can be substituted or unsubstituted. When substituted the substituted group(s) can be hydroxyl, cyano, alkoxy, =O, =S, NO₂ or N(CH₃)₂, amino, or SH. The term also includes alkenyl groups which are unsaturated hydrocarbon groups containing at least one carbon-carbon double bond, including straight-chain, branched-chain, and cyclic groups. The alkenyl group can have, for example, 1 to 12 carbons. In one embodiment of the invention the alkenyl group can be a lower alkenyl of from 1 to 7 carbons. In another embodiment the alkenyl group can be 1 to 4 carbons. The alkenyl group can be substituted or unsubstituted. When substituted the substituted group(s) can be, for example, hydroxyl, cyano, alkoxy, =O, =S, NO₂, halogen, N(CH₃)₂, amino, or SH. The term "alkyl" also includes alkynyl groups which have an unsaturated hydrocarbon group containing at least one carbon-carbon triple bond, including straight-chain, branched-chain, and cyclic groups. The alkynyl group can have, for example, 1 to 12 carbons. In one embodiment of the invention, the alkynyl group is a lower alkynyl of from 1 to 7 carbons. In another embodiment of the invention, the alkynyl group is 1 to 4 carbons. The alkynyl group can be substituted or unsubstituted. When substituted the substituted group(s) can be, for example, hydroxyl, cyano, alkoxy, =O, =S, NO₂ or N(CH₃)₂, amino or SH.

Such alkyl groups can also include aryl, alkylaryl, carbocyclic aryl, heterocyclic aryl, amide and ester groups. An "aryl" group refers to an aromatic group that has at least one ring having a conjugated p electron system and includes carbocyclic aryl, heterocyclic aryl and biaryl groups, all of that can be optionally substituted. The preferred substituent(s) of aryl groups are halogen, trihalomethyl, hydroxyl, SH, OH, cyano, alkoxy, alkyl, alkenyl, alkynyl, and amino groups. An "alkylaryl" group refers to an alkyl group (as described above) covalently joined to an aryl group (as described above). Carbocyclic aryl groups are groups wherein the ring atoms on the aromatic ring are all carbon atoms. The carbon atoms are optionally substituted. Heterocyclic aryl groups are groups having from 1 to 3 heteroatoms as ring atoms in the aromatic ring and the remainder of the ring atoms are carbon atoms. Suitable heteroatoms include oxygen, sulfur, and nitrogen, and include furanyl, thienyl, pyridyl, pyrrolyl, N-lower alkyl pyrrolo, pyrimidyl, pyrazinyl, imidazolyl and the like, all optionally substituted. An "amide" refers to an -C(O)-NH-R, where R is either alkyl, aryl,

alkylaryl or hydrogen. An "ester" refers to an $-C(O)-OR'$, where R is either alkyl, aryl, alkylaryl or hydrogen.

By "nucleotide" is meant a heterocyclic nitrogenous base in N-glycosidic linkage with a phosphorylated sugar. Nucleotides are recognized in the art to include natural bases (standard), and modified bases well known in the art. Such bases are generally located at the 1' position of a nucleotide sugar moiety. Nucleotides generally comprise a base, sugar and a phosphate group. The nucleotides can be unmodified or modified at the sugar, phosphate and/or base moiety, (also referred to interchangeably as nucleotide analogs, modified nucleotides, non-natural nucleotides, non-standard nucleotides and other; see for example, Usman and McSwiggen, *supra*; Eckstein *et al.*, International PCT Publication No. WO 92/07065; Usman *et al.*, International PCT Publication No. WO 93/15187; Uhlman & Peyman, *supra* all are hereby incorporated by reference herein). There are several examples of modified nucleic acid bases known in the art as summarized by Limbach *et al.*, 1994, Nucleic Acids Res. 22, 2183. Some of the non-limiting examples of chemically modified and other natural nucleic acid bases that can be introduced into nucleic acids include, for example, inosine, purine, pyridin-4-one, pyridin-2-one, phenyl, pseudouracil, 2, 4, 6-trimethoxy benzene, 3-methyl uracil, dihydrouridine, naphthyl, aminophenyl, 5-alkylcytidines (e.g., 5-methylcytidine), 5-alkyluridines (e.g., ribothymidine), 5-halouridine (e.g., 5-bromouridine) or 6-azapyrimidines or 6-alkylpyrimidines (e.g. 6-methyluridine), propyne, queosine, 2-thiouridine, 4-thiouridine, wybutosine, wybutoxosine, 4-acetylcytidine, 5-(carboxyhydroxymethyl)uridine, 5'-carboxymethylaminomethyl-2-thiouridine, 5-carboxymethylaminomethyluridine, beta-D-galactosylqueosine, 1-methyladenosine, 1-methylinosine, 2,2-dimethylguanosine, 3-methylcytidine, 2-methyladenosine, 2-methylguanosine, N6-methyladenosine, 7-methylguanosine, 5-methoxyaminomethyl-2-thiouridine, 5-methylaminomethyluridine, 5-methylcarbonylmethyluridine, 5-methoxyuridine, 5-methyl-2-thiouridine, 2-methylthio-N6-isopentenyladenosine, beta-D-mannosylqueosine, uridine-5-oxyacetic acid, 2-thiocytidine, threonine derivatives and others (Burgin *et al.*, 1996, Biochemistry, 35, 14090; Uhlman & Peyman, *supra*). By "modified bases" in this aspect is meant nucleotide bases other than adenine, guanine, cytosine and uracil at 1' position or their equivalents; such bases can be used at any position, for example, within the catalytic core of an enzymatic nucleic acid molecule and/or in the substrate-binding regions of the nucleic acid molecule.

By "nucleoside" is meant a heterocyclic nitrogenous base in N-glycosidic linkage with a sugar. Nucleosides are recognized in the art to include natural bases (standard), and modified bases well known in the art. Such bases are generally located at the 1' position of a nucleoside sugar moiety. Nucleosides generally comprise a base and sugar group. The nucleosides can be unmodified or modified at the sugar, and/or base moiety, (also referred to

interchangeably as nucleoside analogs, modified nucleosides, non-natural nucleosides, non-standard nucleosides and other; see for example, Usman and McSwiggen, *supra*; Eckstein *et al.*, International PCT Publication No. WO 92/07065; Usman *et al.*, International PCT Publication No. WO 93/15187; Uhlman & Peyman, *supra* all are hereby incorporated by reference herein). There are several examples of modified nucleic acid bases known in the art as summarized by Limbach *et al.*, 1994, *Nucleic Acids Res.* 22, 2183. Some of the non-limiting examples of chemically modified and other natural nucleic acid bases that can be introduced into nucleic acids include, inosine, purine, pyridin-4-one, pyridin-2-one, phenyl, pseudouracil, 2, 4, 6-trimethoxy benzene, 3-methyl uracil, dihydrouridine, naphthyl, aminophenyl, 5-alkylcytidines (e.g., 5-methylcytidine), 5-alkyluridines (e.g., ribothymidine), 5-halouridine (e.g., 5-bromouridine) or 6-azapyrimidines or 6-alkylpyrimidines (e.g. 6-methyluridine), propyne, queosine, 2-thiouridine, 4-thiouridine, wybutosine, wybutoxosine, 4-acetylcytidine, 5-(carboxyhydroxymethyl)uridine, 5'-carboxymethylaminomethyl-2-thiouridine, 5-carboxymethylaminomethyluridine, beta-D-galactosylqueosine, 1-methyladenosine, 1-methylinosine, 2,2-dimethylguanosine, 3-methylcytidine, 2-methyladenosine, 2-methylguanosine, N6-methyladenosine, 7-methylguanosine, 5-methoxyaminomethyl-2-thiouridine, 5-methylaminomethyluridine, 5-methylcarbonylmethyluridine, 5-methoxyuridine, 5-methyl-2-thiouridine, 2-methylthio-N6-isopentenyladenosine, beta-D-mannosylqueosine, uridine-5-oxyacetic acid, 2-thiocytidine, threonine derivatives and others (Burgin *et al.*, 1996, *Biochemistry*, 35, 14090; Uhlman & Peyman, *supra*). By "modified bases" in this aspect is meant nucleoside bases other than adenine, guanine, cytosine and uracil at 1' position or their equivalents; such bases can be used at any position, for example, within the catalytic core of an enzymatic nucleic acid molecule and/or in the substrate-binding regions of the nucleic acid molecule.

By "abasic" or "abasic nucleotide" is meant sugar moieties lacking a base or having other chemical groups in place of a base at the 1' position, (for more details see Wincott *et al.*, International PCT publication No. WO 97/26270).

By "unmodified nucleoside" is meant one of the bases adenine, cytosine, guanine, thymine, uracil joined to the 1' carbon of β -D-ribo-furanose.

By "modified nucleoside" is meant any nucleoside base that contains a modification in the chemical structure of an unmodified nucleoside base or sugar.

By "modified nucleotide" is meant any nucleoside base that contains a modification in the chemical structure of an unmodified nucleoside base, sugar and/or phosphate.

By "consists essentially of" is meant that the active nucleic acid molecule of the invention, for example, an enzymatic nucleic acid molecule, contains an enzymatic center or core equivalent to those in the examples, and binding arms able to bind RNA such that cleavage at the target site occurs. Other sequences can be present that do not interfere with such cleavage. Thus, a core region can, for example, include one or more loop, stem-loop structure, or linker that does not prevent enzymatic activity. Thus, the underlined regions in the sequences in Tables III, IV, VIII and IX can be such a loop, stem-loop, nucleotide linker, and/or non-nucleotide linker and can be represented generally as sequence "X". For example, a core sequence for a hammerhead enzymatic nucleic acid can comprise a conserved sequence, such as 5'-CUGAUGAG-3' and 5'-CGAA-3' connected by "X", where X is 5'-GCCGUUAGGC-3' (SEQ ID NO 37055), or any other Stem II region known in the art, or a nucleotide and/or non-nucleotide linker. Similarly, for other nucleic acid molecules of the instant invention, such as Inozyme, G-cleaver, amberzyme, zinzyme, DNAzyme, antisense, 2-5A antisense, triplex forming nucleic acid, and decoy nucleic acids, other sequences or non-nucleotide linkers can be present that do not interfere with the function of the nucleic acid molecule.

Sequence X can be a linker of ≥ 2 nucleotides in length, for example 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 26, 30, where the nucleotides can be internally base-paired to form a stem of about ≥ 2 base pairs. Alternatively or in addition, sequence X can be a non-nucleotide linker. In yet another embodiment, the nucleotide linker X can be a nucleic acid aptamer, such as an ATP aptamer, HIV Rev aptamer (RRE), HIV Tat aptamer (TAR) and others (for a review see Gold *et al.*, 1995, *Annu. Rev. Biochem.*, 64, 763; and Szostak & Ellington, 1993, in *The RNA World*, ed. Gesteland and Atkins, pp. 511, CSH Laboratory Press). A "nucleic acid aptamer" as used herein is meant to indicate a nucleic acid sequence capable of interacting with a ligand. The ligand can be any natural or a synthetic molecule, including but not limited to a resin, metabolites, nucleosides, nucleotides, drugs, toxins, transition state analogs, peptides, lipids, proteins, amino acids, nucleic acid molecules, hormones, carbohydrates, receptors, cells, viruses, bacteria and others.

In yet another embodiment, the non-nucleotide linker X is as defined herein. The term "non-nucleotide" as used herein include either abasic nucleotide, polyether, polyamine, polyamide, peptide, carbohydrate, lipid, or polyhydrocarbon compounds. Specific examples include those described by Seela and Kaiser, *Nucleic Acids Res.* 1990, 18:6353 and *Nucleic Acids Res.* 1987, 15:3113; Cload and Schepartz, *J. Am. Chem. Soc.* 1991, 113:6324; Richardson and Schepartz, *J. Am. Chem. Soc.* 1991, 113:5109; Ma *et al.*, *Nucleic Acids Res.* 1993, 21:2585 and *Biochemistry* 1993, 32:1751; Durand *et al.*, *Nucleic Acids Res.* 1990, 18:6353; McCurdy *et al.*, *Nucleosides & Nucleotides* 1991, 10:287; Jschke *et al.*, *Tetrahedron Lett.* 1993, 34:301; Ono *et al.*, *Biochemistry* 1991, 30:9914; Arnold *et al.*,

International Publication No. WO 89/02439; Usman *et al.*, International Publication No. WO 95/06731; Dudycz *et al.*, International Publication No. WO 95/11910 and Ferentz and Verdine, *J. Am. Chem. Soc.* 1991, 113:4000, all hereby incorporated by reference herein. A "non-nucleotide" further means any group or compound that can be incorporated into a nucleic acid chain in the place of one or more nucleotide units, including either sugar and/or phosphate substitutions, and allows the remaining bases to exhibit their enzymatic activity. The group or compound can be abasic in that it does not contain a commonly recognized nucleotide base, such as adenosine, guanine, cytosine, uracil or thymine. Thus, in one embodiment, the invention features an enzymatic nucleic acid molecule having one or more non-nucleotide moieties, and having enzymatic activity to cleave an RNA or DNA molecule.

Enzymatic Nucleic Acid Molecules

There are several known classes of enzymatic nucleic acid molecules capable of cleaving target RNA. In addition, several *in vitro* selection (evolution) strategies (Orgel, 1979, *Proc. R. Soc. London*, B 205, 435) have been used to evolve new nucleic acid catalysts capable of catalyzing cleavage and ligation of phosphodiester linkages (Joyce, 1989, *Gene*, 82, 83-87; Beaudry *et al.*, 1992, *Science* 257, 635-641; Joyce, 1992, *Scientific American* 267, 90-97; Breaker *et al.*, 1994, *TIBTECH* 12, 268; Bartel *et al.*, 1993, *Science* 261:1411-1418; Szostak, 1993, *TIBS* 17, 89-93; Kumar *et al.*, 1995, *FASEB J.*, 9, 1183; Breaker, 1996, *Curr. Op. Biotech.*, 7, 442; Santoro *et al.*, 1997, *Proc. Natl. Acad. Sci.*, 94, 4262; Tang *et al.*, 1997, *RNA* 3, 914; Nakacane & Eckstein, 1994, *supra*; Long & Uhlenbeck, 1994, *supra*; Ishizaka *et al.*, 1995, *supra*; Vaish *et al.*, 1997, *Biochemistry* 36, 6495; all of these are incorporated by reference herein). Each can catalyze a series of reactions including the hydrolysis of phosphodiester bonds in *trans* (and thus can cleave other RNA molecules) under physiological conditions. Table I summarizes some of the characteristics of some of these enzymatic nucleic acids. In general, enzymatic nucleic acids act by first binding to a target RNA. Such binding occurs through the target binding portion of an enzymatic nucleic acid that is held in close proximity to an enzymatic portion of the molecule that acts to cleave the target RNA. Thus, the enzymatic nucleic acid first recognizes and then binds a target RNA through complementary base-pairing, and once bound to the correct site, acts enzymatically to cut the target RNA. Strategic cleavage of such a target RNA will destroy its ability to direct synthesis of an encoded protein. After an enzymatic nucleic acid has bound and cleaved its RNA target, it is released from that RNA to search for another target and can repeatedly bind and cleave new targets.

The enzymatic nature of a enzymatic nucleic acid is advantageous over other technologies, since the concentration of enzymatic nucleic acid necessary to affect a therapeutic treatment is lower. This advantage reflects the ability of the enzymatic nucleic acid to act enzymatically. Thus, a single enzymatic nucleic acid molecule is able to cleave many molecules of target RNA. In addition, the enzymatic nucleic acid is a highly specific inhibitor, with the specificity of inhibition depending not only on the base-pairing mechanism of binding to the target RNA, but also on the mechanism of target RNA cleavage. Single mismatches, or base-substitutions, near the site of cleavage can be chosen to completely eliminate catalytic activity of a enzymatic nucleic acid.

Nucleic acid molecules having an endonuclease enzymatic activity are able to repeatedly cleave other separate RNA molecules in a nucleotide base sequence-specific manner. With proper design and construction, such enzymatic nucleic acid molecules can be targeted to any RNA transcript, and efficient cleavage achieved *in vitro* (Zaug *et al.*, 324, *Nature* 429 1986 ; Uhlenbeck, 1987 *Nature* 328, 596; Kim *et al.*, 84 *Proc. Natl. Acad. Sci. USA* 8788, 1987; Dreyfus, 1988, *Einstein Quart. J. Bio. Med.*, 6, 92; Haseloff and Gerlach, 334 *Nature* 585, 1988; Cech, 260 *JAMA* 3030, 1988; and Jefferies *et al.*, 17 *Nucleic Acids Research* 1371, 1989; Chartrand *et al.*, 1995, *Nucleic Acids Research* 23, 4092; Santoro *et al.*, 1997, *PNAS* 94, 4262).

Because of their sequence-specificity, *trans*-cleaving enzymatic nucleic acid molecules show promise as therapeutic agents for human disease (Usman & McSwiggen, 1995 *Ann. Rep. Med. Chem.* 30, 285-294; Christoffersen and Marr, 1995 *J. Med. Chem.* 38, 2023-2037). Enzymatic nucleic acid molecules can be designed to cleave specific RNA targets within the background of cellular RNA. Such a cleavage event renders the RNA non-functional and abrogates protein expression from that RNA. In this manner, synthesis of a protein associated with a disease state can be selectively inhibited.

Enzymatic nucleic acid molecules that cleave the specified sites in WNV-specific RNAs represent a novel therapeutic approach to treat WNV infection, pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma, cirrhosis, and/or other disease states associated with WNV infection. The enzymatic nucleic acid molecules of the present invention can modulate, for example, down-regulate the activity of WNV via their catalytic activity. Those of ordinary skill in the art would realize that other enzymatic nucleic acid molecules that cleave WNV

RNAs can be designed using the techniques and other teachings described herein and thus are within the scope of the invention.

In one embodiment, the invention features the use of an enzymatic nucleic acid molecule, which can be in the hammerhead, NCH (Inozyme), G-cleaver, amberzyme, zinzyme and/or DNAzyme motif, to modulate the expression of a WNV gene or genes. In one particular embodiment, the enzymatic nucleic acid molecule is used to down-regulate the expression of a WNV gene or genes.

In one of the preferred embodiments of the inventions described herein, the enzymatic nucleic acid molecule is formed in a hammerhead or hairpin motif, but can also be formed in the motif of a hepatitis delta virus, group I intron, group II intron or RNase P RNA (in association with an RNA guide sequence), DNAzymes, NCH cleaving motifs (inozymes), or G-cleavers. Examples of such hammerhead motifs (Figure 1a) are described in Dreyfus, *supra*, Rossi *et al.*, 1992, *AIDS Research and Human Retroviruses* 8, 183. Examples of hairpin motifs are described in Hampel *et al.*, EP0360257, Hampel and Tritz, 1989 *Biochemistry* 28, 4929, Feldstein *et al.*, 1989, *Gene* 82, 53, Haseloff and Gerlach, 1989, *Gene*, 82, 43, Hampel *et al.*, 1990 *Nucleic Acids Res.* 18, 299; Chowrira & McSwiggen, US. Patent No. 5,631,359. The hepatitis delta virus motif is generally described in Perrotta and Been, 1992 *Biochemistry* 31, 16. The RNase P motif is generally described in Guerrier-Takada *et al.*, 1983 *Cell* 35, 849; Forster and Altman, 1990, *Science* 249, 783; Li and Altman, 1996, *Nucleic Acids Res.* 24, 835. Examples of group II introns are generally described in Griffin *et al.*, 1995, *Chem. Biol.* 2, 761; Michels and Pyle, 1995, *Biochemistry* 34, 2965; Pyle *et al.*, International PCT Publication No. WO 96/22689. The Group I intron is generally described in Cech *et al.*, U.S. Patent 4,987,071. DNAzymes (Figure 4) are generally described in Usman *et al.*, International PCT Publication No. WO 95/11304; Chartrand *et al.*, 1995, *NAR* 23, 4092; Breaker *et al.*, 1995, *Chem. Bio.* 2, 655; Santoro *et al.*, 1997, *PNAS* 94, 4262; Breaker, 1999, *Nature Biotechnology*, 17, 422-423; Santoro *et al.*, 2000, *J. Am. Chem. Soc.*, 122, 2433-39). NCH cleaving motifs (Figure 1b) are generally described in Ludwig & Sproat, International PCT Publication No. WO 98/58058; and G-cleavers (Figure 1c) are generally described in Kore *et al.*, 1998, *Nucleic Acids Research* 26, 4116-4120 and Eckstein *et al.*, International PCT Publication No. WO 99/16871. Additional motifs contemplated by the instant invention include the Allozyme (Breaker *et al.*, WO 98/43993, Shih *et al.*, U.S. Patent 5,589,332, George *et al.*, U.S. Patent 5,741,679), Amberzyme (Figure 2, Class I motif in Beigelman *et al.*, International PCT publication No. WO 99/55857) and Zinzyme (Figure 3, Class II motif in Beigelman *et al.*, International PCT publication No. WO 99/55857), all these references are incorporated by reference herein in their totalities, including drawings and can also be used in the present invention. These specific motifs are not limiting in the invention. Those skilled in the art will recognize that all that is important is that the

enzymatic molecule have a specific substrate binding site that is complementary to one or more of the target gene RNA regions, and that it have nucleotide sequences within or surrounding that substrate binding site that impart an RNA cleaving activity to the molecule (Cech *et al.*, U.S. Patent No. 4,987,071).

Enzymatic nucleic acid molecules of the invention that are allosterically regulated ("allozymes") can be used to modulate, for example down-regulate, WNV expression. These allosteric enzymatic nucleic acids or allozymes (see for example George *et al.*, US Patent Nos. 5,834,186 and 5,741,679, Shih *et al.*, US Patent No. 5,589,332, Nathan *et al.*, US Patent No 5,871,914, Nathan and Ellington, International PCT publication No. WO 00/24931, Breaker *et al.*, International PCT Publication Nos. WO 00/26226 and 98/27104, and Sullenger *et al.*, International PCT publication No. WO 99/29842) are designed to respond to a signaling agent, for example a WNV proteins, WNV RNA, other proteins and/or RNAs involved in WNV activity, compounds, metals, polymers, molecules and/or drugs that are targeted to WNV infected cells etc., that in turn modulates the activity of the enzymatic nucleic acid molecule. In response to interaction with a predetermined signaling agent, the activity of the allosteric enzymatic nucleic acid is activated or inhibited such that the expression of a particular target is selectively modulated. The target can comprise WNV proteins, WNV RNA, and/or a predetermined cellular component that modulates WNV activity. In a specific example, allosteric enzymatic nucleic acid molecules that are activated by interaction with an RNA encoding a WNV protein are used as therapeutic agents *in vivo* to down-regulate WNV expression. The presence of the WNV RNA activates the allosteric enzymatic nucleic acid molecule, which subsequently cleaves the WNV RNA resulting in the inhibition of WNV protein expression. In this manner, cells that express the WNV protein are selectively targeted.

In another non-limiting example, an allozyme can be activated by a WNV protein, peptide, or mutant polypeptide that cause the allozyme to inhibit the expression of WNV genes, by, for example, cleaving RNA encoded by the WNV gene. In this non-limiting example, the allozyme acts as a decoy to inhibit the function of WNV and also inhibit the expression of WNV once activated by the WNV protein.

Target sites

Targets for useful nucleic acid molecules can be determined as disclosed in Draper *et al.*, WO 93/23569; Sullivan *et al.*, WO 93/23057; Thompson *et al.*, WO 94/02595; Draper *et al.*, WO 95/04818; McSwiggen *et al.*, US Patent No. 5,525,468 and hereby incorporated by reference herein in totality. Rather than repeat the guidance provided in those documents here, below are provided specific examples of such methods, not limiting to those in the art.

Nucleic acid molecules to such targets are designed as described in those applications and synthesized for testing *in vitro* and *in vivo*, as also described. Such nucleic acid molecules can also be optimized and delivered as described therein.

The sequence of WNV RNAs were screened for optimal nucleic acid target sites using a computer folding algorithm. Enzymatic nucleic acid cleavage sites were identified. These sites are shown in **Tables III-XIII** (All sequences are 5' to 3' in the tables, underlined regions can be any sequence "X" or linker X, the actual sequence is not relevant). The nucleotide base position is noted in the tables as that site designed for cleavage by the designated type of enzymatic nucleic acid. The nucleotide base position is noted in the tables as that site designed for cleavage by the designated type of enzymatic nucleic acid molecules.

Because WNV RNAs are highly homologous in certain regions, for example, the 3'-UTR, nucleic acid molecule target sites in such regions are also homologous. In such instances, a specific nucleic acid molecule can target different classes sub-types, and variants of WNV RNA. The advantage of a nucleic acid molecule that targets several classes, sub-types or variants of WNV RNA is clear, especially in cases where one or more of these RNAs contribute to the disease state.

Enzymatic nucleic acid molecules were designed that could bind to target sequences and were individually analyzed by computer folding (Jaeger *et al.*, 1989 *Proc. Natl. Acad. Sci. USA*, 86, 7706) to assess whether the enzymatic nucleic acid sequences fold into the appropriate secondary structure. Those enzymatic nucleic acid molecules with unfavorable intramolecular interactions between the binding arms and the catalytic core are eliminated from consideration. Varying binding arm lengths can be chosen to optimize activity. Generally, at least 5 bases on each arm are able to bind to, or otherwise interact with, the target RNA. Enzymatic nucleic acid molecules of the different motifs were designed to anneal to various sites in the mRNA message. The binding arms are complementary to the target site sequences described above.

Synthesis of Nucleic Acid Molecules

Synthesis of nucleic acids greater than 100 nucleotides in length is difficult using automated methods, and the therapeutic cost of such molecules is prohibitive. In this invention, small nucleic acid motifs ("small" refers to nucleic acid motifs less than about 100 nucleotides in length, and in one embodiment, less than about 80 nucleotides in length, and in

another embodiment, less than about 50 nucleotides in length; e.g., antisense oligonucleotides, hammerhead or the NCH ribozymes) can be used for exogenous delivery. The simple structure of these molecules increases the ability of the nucleic acid to invade targeted regions of RNA structure. Exemplary molecules of the instant invention are chemically synthesized, and others can similarly be synthesized.

Oligonucleotides (e.g., antisense GeneBlocs) are synthesized using protocols known in the art, for example, as described in Caruthers *et al.*, 1992, *Methods in Enzymology* 211, 3-19, Thompson *et al.*, International PCT Publication No. WO 99/54459, Wincott *et al.*, 1995, *Nucleic Acids Res.* 23, 2677-2684, Wincott *et al.*, 1997, *Methods Mol. Bio.*, 74, 59, Brennan *et al.*, 1998, *Biotechnol Bioeng.*, 61, 33-45, and Brennan, US patent No. 6,001,311. All of these references are incorporated herein by reference. The synthesis of oligonucleotides makes use of common nucleic acid protecting and coupling groups, such as dimethoxytrityl at the 5'-end, and phosphoramidites at the 3'-end. In a non-limiting example, small scale syntheses are conducted on a 394 Applied Biosystems, Inc. synthesizer using a 0.2 μ mol scale protocol with a 2.5 min coupling step for 2'-O-methylated nucleotides and a 45 sec coupling step for 2'-deoxy nucleotides. Table II outlines the amounts and the contact times of the reagents used in the synthesis cycle. Alternatively, syntheses at the 0.2 μ mol scale can be performed on a 96-well plate synthesizer, such as the instrument produced by Protogene (Palo Alto, CA) with minimal modification to the cycle. A 33-fold excess (60 μ L of 0.11 M = 6.6 μ mol) of 2'-O-methyl phosphoramidite and a 105-fold excess of S-ethyl tetrazole (60 μ L of 0.25 M = 15 μ mol) can be used in each coupling cycle of 2'-O-methyl residues relative to polymer-bound 5'-hydroxyl. A 22-fold excess (40 μ L of 0.11 M = 4.4 μ mol) of deoxy phosphoramidite and a 70-fold excess of S-ethyl tetrazole (40 μ L of 0.25 M = 10 μ mol) can be used in each coupling cycle of deoxy residues relative to polymer-bound 5'-hydroxyl. Average coupling yields on the 394 Applied Biosystems, Inc. synthesizer, determined by colorimetric quantitation of the trityl fractions, are typically 97.5-99%. Other oligonucleotide synthesis reagents for the 394 Applied Biosystems, Inc. synthesizer include; detritylation solution is 3% TCA in methylene chloride (ABI); capping is performed with 16% *N*-methyl imidazole in THF (ABI) and 10% acetic anhydride/10% 2,6-lutidine in THF (ABI); and oxidation solution is 16.9 mM I₂, 49 mM pyridine, 9% water in THF (PERSEPTIVE™). Burdick & Jackson Synthesis Grade acetonitrile is used directly from the reagent bottle. S-Ethyltetrazole solution (0.25 M in acetonitrile) is made up from the solid obtained from American International Chemical, Inc. Alternately, for the introduction of phosphorothioate linkages, Beaucage reagent (3H-1,2-Benzodithiol-3-one 1,1-dioxide, 0.05 M in acetonitrile) is used.

Deprotection of the antisense oligonucleotides is performed as follows: the polymer-bound trityl-on oligoribonucleotide is transferred to a 4 mL glass screw top vial and

suspended in a solution of 40% aq. methylamine (1 mL) at 65 °C for 10 min. After cooling to -20 °C, the supernatant is removed from the polymer support. The support is washed three times with 1.0 mL of EtOH:MeCN:H₂O/3:1:1, vortexed and the supernatant is then added to the first supernatant. The combined supernatants, containing the oligoribonucleotide, are dried to a white powder.

The method of synthesis used for normal RNA including certain enzymatic nucleic acid molecules follows the procedure as described in Usman *et al.*, 1987, *J. Am. Chem. Soc.*, 109, 7845; Scaringe *et al.*, 1990, *Nucleic Acids Res.*, 18, 5433; and Wincott *et al.*, 1995, *Nucleic Acids Res.* 23, 2677-2684 Wincott *et al.*, 1997, *Methods Mol. Bio.*, 74, 59, and makes use of common nucleic acid protecting and coupling groups, such as dimethoxytrityl at the 5'-end, and phosphoramidites at the 3'-end. In a non-limiting example, small scale syntheses are conducted on a 394 Applied Biosystems, Inc. synthesizer using a 0.2 µmol scale protocol with a 7.5 min coupling step for alkylsilyl protected nucleotides and a 2.5 min coupling step for 2'-O-methylated nucleotides. Table II outlines the amounts and the contact times of the reagents used in the synthesis cycle. Alternatively, syntheses at the 0.2 µmol scale can be done on a 96-well plate synthesizer, such as the instrument produced by Protogene (Palo Alto, CA) with minimal modification to the cycle. A 33-fold excess (60 µL of 0.11 M = 6.6 µmol) of 2'-O-methyl phosphoramidite and a 75-fold excess of S-ethyl tetrazole (60 µL of 0.25 M = 15 µmol) can be used in each coupling cycle of 2'-O-methyl residues relative to polymer-bound 5'-hydroxyl. A 66-fold excess (120 µL of 0.11 M = 13.2 µmol) of alkylsilyl (ribo) protected phosphoramidite and a 150-fold excess of S-ethyl tetrazole (120 µL of 0.25 M = 30 µmol) can be used in each coupling cycle of ribo residues relative to polymer-bound 5'-hydroxyl. Average coupling yields on the 394 Applied Biosystems, Inc. synthesizer, determined by colorimetric quantitation of the trityl fractions, are typically 97.5-99%. Other oligonucleotide synthesis reagents for the 394 Applied Biosystems, Inc. synthesizer include; detritylation solution is 3% TCA in methylene chloride (ABI); capping is performed with 16% *N*-methyl imidazole in THF (ABI) and 10% acetic anhydride/10% 2,6-lutidine in THF (ABI); oxidation solution is 16.9 mM I₂, 49 mM pyridine, 9% water in THF (PERSEPTIVE™). Burdick & Jackson Synthesis Grade acetonitrile is used directly from the reagent bottle. S-Ethyltetrazole solution (0.25 M in acetonitrile) is made up from the solid obtained from American International Chemical, Inc. Alternately, for the introduction of phosphorothioate linkages, Beaucage reagent (3H-1,2-Benzodithiol-3-one 1,1-dioxide 0.05 M in acetonitrile) is used.

Deprotection of the RNA is performed using either a two-pot or one-pot protocol. For the two-pot protocol, the polymer-bound trityl-on oligoribonucleotide is transferred to a 4 mL glass screw top vial and suspended in a solution of 40% aq. methylamine (1 mL) at 65 °C for 10 min. After cooling to -20 °C, the supernatant is removed from the polymer support. The

support is washed three times with 1.0 mL of EtOH:MeCN:H₂O/3:1:1, vortexed and the supernatant is then added to the first supernatant. The combined supernatants, containing the oligoribonucleotide, are dried to a white powder. The base deprotected oligoribonucleotide is resuspended in anhydrous TEA/HF/NMP solution (300 μ L of a solution of 1.5 mL N-methylpyrrolidinone, 750 μ L TEA and 1 mL TEA \cdot 3HF to provide a 1.4 M HF concentration) and heated to 65 $^{\circ}$ C. After 1.5 h, the oligomer is quenched with 1.5 M NH₄HCO₃.

Alternatively, for the one-pot protocol, the polymer-bound trityl-on oligoribonucleotide is transferred to a 4 mL glass screw top vial and suspended in a solution of 33% ethanolic methylamine/DMSO: 1/1 (0.8 mL) at 65 $^{\circ}$ C for 15 min. The vial is brought to r.t. TEA \cdot 3HF (0.1 mL) is added and the vial is heated at 65 $^{\circ}$ C for 15 min. The sample is cooled at -20 $^{\circ}$ C and then quenched with 1.5 M NH₄HCO₃.

For purification of the trityl-on oligomers, the quenched NH₄HCO₃ solution is loaded onto a C-18 containing cartridge that had been prewashed with acetonitrile followed by 50 mM TEAA. After washing the loaded cartridge with water, the RNA is detritylated with 0.5% TFA for 13 min. The cartridge is then washed again with water, salt exchanged with 1 M NaCl and washed with water again. The oligonucleotide is then eluted with 30% acetonitrile.

Inactive hammerhead ribozymes or binding attenuated control (BAC) oligonucleotides are synthesized by substituting a U for G₅ and a U for A₁₄ (numbering from Hertel, K. J., *et al.*, 1992, *Nucleic Acids Res.*, 20, 3252). Similarly, one or more nucleotide substitutions can be introduced in other enzymatic nucleic acid molecules to inactivate the molecule and such molecules can serve as a negative control.

The average stepwise coupling yields are typically >98% (Wincott *et al.*, 1995 *Nucleic Acids Res.* 23, 2677-2684). Those of ordinary skill in the art will recognize that the scale of synthesis can be adapted to be larger or smaller than the example described above including but not limited to 96 well format, all that is important is the ratio of chemicals used in the reaction.

Alternatively, the nucleic acid molecules of the present invention can be synthesized separately and joined together post-synthetically, for example by ligation (Moore *et al.*, 1992, *Science* 256, 9923; Draper *et al.*, International PCT publication No. WO 93/23569; Shabarova *et al.*, 1991, *Nucleic Acids Research* 19, 4247; Bellon *et al.*, 1997, *Nucleosides & Nucleotides*, 16, 951; Bellon *et al.*, 1997, *Bioconjugate Chem.* 8, 204).

The nucleic acid molecules of the present invention can be modified extensively to enhance stability by modification with nuclease resistant groups, for example, 2'-amino, 2'-C-allyl, 2'-fluoro, 2'-O-methyl, 2'-H (for a review see Usman and Cedergren, 1992, *TIBS* 17, 34;

Usman *et al.*, 1994, *Nucleic Acids Symp. Ser.* 31, 163). Ribozymes are purified by gel electrophoresis using general methods or are purified by high pressure liquid chromatography (HPLC; See Wincott *et al.*, *Supra*, the totality of that reference is incorporated herein by reference) and are re-suspended in water.

The sequences of the enzymatic nucleic acids that are chemically synthesized, are shown in **Tables III to XIII**. Those in the art will recognize that these sequences are representative only of many more such sequences where the enzymatic portion of the enzymatic nucleic acid (all but the binding arms) is altered to affect activity. The enzymatic nucleic acid molecule sequences listed in **Tables III to XIII** can be formed of ribonucleotides or other nucleotides or non-nucleotides. Such nucleic acids with enzymatic activity are equivalent to the enzymatic nucleic acid molecules described specifically in the tables.

Optimizing Activity of the nucleic acid molecules of the invention.

Chemically synthesizing nucleic acid molecules with modifications (base, sugar and/or phosphate) that prevent their degradation by serum ribonucleases, which can increase their potency (see *e.g.*, Eckstein *et al.*, International Publication No. WO 92/07065; Perrault *et al.*, 1990 *Nature* 344, 565; Pieken *et al.*, 1991, *Science* 253, 314; Usman and Cedergren, 1992, *Trends in Biochem. Sci.* 17, 334; Usman *et al.*, International Publication No. WO 93/15187; and Rossi *et al.*, International Publication No. WO 91/03162; Sproat, US Patent No. 5,334,711; and Burgin *et al.*, *supra*; all of which are incorporated by reference herein). All of the above references describe various chemical modifications that can be made to the base, phosphate and/or sugar moieties of the nucleic acid molecules described herein. Modifications that enhance their efficacy in cells, and removal of bases from nucleic acid molecules to shorten oligonucleotide synthesis times and reduce chemical requirements are desired.

There are several examples in the art describing sugar, base and phosphate modifications that can be introduced into nucleic acid molecules with significant enhancement in their nuclease stability and efficacy. For example, oligonucleotides are modified to enhance stability and/or enhance biological activity by modification with nuclease resistant groups, for example, 2'-amino, 2'-C-allyl, 2'-fluoro, 2'-O-methyl, 2'-H, nucleotide base modifications (for a review see Usman and Cedergren, 1992, *TIBS*. 17, 34; Usman *et al.*, 1994, *Nucleic Acids Symp. Ser.* 31, 163; Burgin *et al.*, 1996, *Biochemistry*, 35, 14090). Sugar modification of nucleic acid molecules has been extensively described in the art (see Eckstein *et al.*, International Publication PCT No. WO 92/07065; Perrault *et al.*

Nature, 1990, 344, 565-568; Pieken *et al.* *Science*, 1991, 253, 314-317; Usman and Cedergren, *Trends in Biochem. Sci.*, 1992, 17, 334-339; Usman *et al.* *International Publication* PCT No. WO 93/15187; Sproat, *US Patent* No. 5,334,711 and Beigelman *et al.*, 1995, *J. Biol. Chem.*, 270, 25702; Beigelman *et al.*, *International PCT publication* No. WO 97/26270; Beigelman *et al.*, *US Patent* No. 5,716,824; Usman *et al.*, *US patent* No. 5,627,053; Woolf *et al.*, *International PCT Publication* No. WO 98/13526; Thompson *et al.*, *USSN* 60/082,404 that was filed on April 20, 1998; Karpeisky *et al.*, 1998, *Tetrahedron Lett.*, 39, 1131; Earnshaw and Gait, 1998, *Biopolymers (Nucleic acid Sciences)*, 48, 39-55; Verma and Eckstein, 1998, *Annu. Rev. Biochem.*, 67, 99-134; and Burlina *et al.*, 1997, *Bioorg. Med. Chem.*, 5, 1999-2010; all of the references are hereby incorporated in their totality by reference herein). Such publications describe general methods and strategies to determine the location of incorporation of sugar, base and/or phosphate modifications and the like into enzymatic nucleic acids without inhibiting catalysis, and are incorporated by reference herein. In view of such teachings, similar modifications can be used as described herein to modify the nucleic acid molecules of the instant invention.

In connection with 2'-modified nucleotides as described for the present invention, by "amino" is meant 2'-NH₂ or 2'-O- NH₂, that can be modified or unmodified. Such modified groups are described, for example, in Eckstein *et al.*, U.S. Patent 5,672,695 and Matulic-Adamic *et al.*, WO 98/28317, respectively, which are both incorporated by reference in their entireties.

Various modifications to nucleic acid (*e.g.*, antisense and enzymatic nucleic acid) structure can be made to enhance the utility of these molecules. Such modifications will enhance shelf-life, half-life *in vitro*, stability, and ease of introduction of such oligonucleotides to the target site, *e.g.*, to enhance penetration of cellular membranes, and confer the ability to recognize and bind to targeted cells.

While chemical modification of oligonucleotide internucleotide linkages with phosphorothioate, phosphorothioate, and/or 5'-methylphosphonate linkages improves stability, excessive modifications can cause some toxicity. Therefore, when designing nucleic acid molecules, the amount of these internucleotide linkages should be minimized. The reduction in the concentration of these linkages should lower toxicity, resulting in increased efficacy and higher specificity of these molecules.

Nucleic acid molecules having chemical modifications that maintain or enhance activity are provided. Such a nucleic acid is also generally more resistant to nucleases than an unmodified nucleic acid. Accordingly, the *in vitro* and/or *in vivo* activity should not be significantly lowered. In cases in which inhibition is the goal, therapeutic nucleic acid molecules delivered exogenously should optimally be stable within cells until translation of the target RNA has been inhibited long enough to reduce the levels of the undesirable protein. This period of time varies between hours to days depending upon the disease state. Clearly, nucleic acid molecules must be resistant to nucleases in order to function as effective intracellular therapeutic agents. Improvements in the chemical synthesis of RNA and DNA (Wincott *et al.*, 1995 *Nucleic Acids Res.* 23, 2677; Caruthers *et al.*, 1992, *Methods in Enzymology* 211,3-19 (incorporated by reference herein) have expanded the ability to modify nucleic acid molecules by introducing nucleotide modifications to enhance their nuclease stability, as described above.

In one embodiment, nucleic acid molecules of the invention include one or more G-clamp nucleotides. A G-clamp nucleotide is a modified cytosine analog wherein the modifications confer the ability to hydrogen bond both Watson-Crick and Hoogsteen faces of a complementary guanine within a duplex, see for example Lin and Matteucci, 1998, *J. Am. Chem. Soc.*, 120, 8531-8532. A single G-clamp analog substitution within an oligonucleotide can result in substantially enhanced helical thermal stability and mismatch discrimination when hybridized to complementary oligonucleotides. The inclusion of such nucleotides in nucleic acid molecules of the invention results in both enhanced affinity and specificity to nucleic acid targets.

In another embodiment, the invention features conjugates and/or complexes of nucleic acid molecules targeting WNV. Such conjugates and/or complexes can be used to facilitate delivery of molecules into a biological system, such as cells. The conjugates and complexes provided by the instant invention can impart therapeutic activity by transferring therapeutic compounds across cellular membranes, altering the pharmacokinetics, and/or modulating the localization of nucleic acid molecules of the invention. The present invention encompasses the design and synthesis of novel conjugates and complexes for the delivery of molecules, including but not limited to small molecules, lipids, phospholipids, nucleosides, nucleotides, nucleic acids, antibodies, toxins, negatively charged polymers and other polymers, for example proteins, peptides, hormones, carbohydrates, polyethylene glycols, or polyamines, across cellular membranes. In general, the transporters described are designed to be used either individually or as part of a multi-component system, with or without degradable linkers. These compounds are expected to improve delivery and/or localization of nucleic

acid molecules of the invention into a number of cell types originating from different tissues, in the presence or absence of serum (see Sullenger and Cech, US 5,854,038). Conjugates of the molecules described herein can be attached to biologically active molecules via linkers that are biodegradable, such as biodegradable nucleic acid linker molecules.

The term "biodegradable nucleic acid linker molecule" as used herein, refers to a nucleic acid molecule that is designed as a biodegradable linker to connect one molecule to another molecule, for example, a biologically active molecule. The stability of the biodegradable nucleic acid linker molecule can be modulated by using various combinations of ribonucleotides, deoxyribonucleotides, and chemically modified nucleotides, for example, 2'-O-methyl, 2'-fluoro, 2'-amino, 2'-O-amino, 2'-C-allyl, 2'-O-allyl, and other 2'-modified or base modified nucleotides. The biodegradable nucleic acid linker molecule can be a dimer, trimer, tetramer or longer nucleic acid molecule, for example, an oligonucleotide of about 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, or 20 nucleotides in length, or can comprise a single nucleotide with a phosphorus based linkage, for example, a phosphoramidate or phosphodiester linkage. The biodegradable nucleic acid linker molecule can also comprise nucleic acid backbone, nucleic acid sugar, or nucleic acid base modifications.

The term "biodegradable" as used herein, refers to degradation in a biological system, for example enzymatic degradation or chemical degradation.

The term "biologically active molecule" as used herein, refers to compounds or molecules that are capable of eliciting or modifying a biological response in a system. Non-limiting examples of biologically active molecules contemplated by the instant invention include therapeutically active molecules such as antibodies, hormones, antivirals, peptides, proteins, chemotherapeutics, small molecules, vitamins, co-factors, nucleosides, nucleotides, oligonucleotides, enzymatic nucleic acids, antisense nucleic acids, triplex forming oligonucleotides, 2,5-A chimeras, siRNA, dsRNA, allozymes, aptamers, decoys and analogs thereof. Biologically active molecules of the invention also include molecules capable of modulating the pharmacokinetics and/or pharmacodynamics of other biologically active molecules, for example, lipids and polymers such as polyamines, polyamides, polyethylene glycol and other polyethers.

The term "phospholipid" as used herein, refers to a hydrophobic molecule comprising at least one phosphorus group. For example, a phospholipid can comprise a phosphorus containing group and saturated or unsaturated alkyl group, optionally substituted with OH, COOH, oxo, amine, or substituted or unsubstituted aryl groups.

Therapeutic nucleic acid molecules (e.g., enzymatic nucleic acid molecules) delivered exogenously optimally are stable within cells until translation of the target RNA has been inhibited long enough to reduce the levels of the undesirable protein. This period of time varies between hours to days depending upon the disease state. The nucleic acid molecules are resistant to nucleases in order to function as effective intracellular therapeutic agents. Improvements in the chemical synthesis of nucleic acid molecules described in the instant invention and in the art have expanded the ability to modify nucleic acid molecules by introducing nucleotide modifications to enhance their nuclease stability as described above.

In yet another preferred embodiment, nucleic acid catalysts having chemical modifications that maintain or enhance enzymatic activity are provided. Such nucleic acids are also generally more resistant to nucleases than unmodified nucleic acids. Thus, *in vitro* and/or *in vivo* the activity should not be significantly lowered. As exemplified herein, such nucleic acid molecules are useful *in vitro* and/or *in vivo* even if activity over all is reduced 10 fold (Burgin *et al.*, 1996, *Biochemistry*, 35, 14090). Such enzymatic nucleic acid molecules herein are said to "maintain" the enzymatic activity of an all RNA enzymatic nucleic acid molecule.

In a preferred embodiment, the invention features modified nucleic acids with phosphate backbone modifications comprising one or more phosphorothioate, phosphorodithioate, methylphosphonate, morpholino, amidate carbamate, carboxymethyl, acetamidate, polyamide, sulfonate, sulfonamide, sulfamate, formacetal, thioformacetal, and/or alkylsilyl, substitutions. For a review of oligonucleotide backbone modifications see Hunziker and Leumann, 1995, *Nucleic Acid Analogues: Synthesis and Properties*, in *Modern Synthetic Methods*, VCH, 331-417, and Mesmaeker *et al.*, 1994, *Novel Backbone Replacements for Oligonucleotides*, in *Carbohydrate Modifications in Antisense Research*, ACS, 24-39. These references are hereby incorporated by reference herein.

These molecules can improve treatment of the disease by affording the possibility of combination therapies (e.g., multiple nucleic acid molecules targeted to different genes, nucleic acid molecules coupled with known small molecule inhibitors, or intermittent treatment with combinations of nucleic acid molecules (including different enzymatic nucleic acid motifs) and/or other chemical or biological molecules). The treatment of patients with nucleic acid molecules can also include combinations of different types of nucleic acid molecules. Therapies can be devised that include a mixture of enzymatic nucleic acids

(including different enzymatic nucleic acid motifs), antisense and/or 2-5A chimera molecules to one or more targets to alleviate symptoms of a disease.

Administration of Nucleic Acid Molecules

Methods for the delivery of nucleic acid molecules are described in Akhtar *et al.*, 1992, *Trends Cell Bio.*, 2, 139; *Delivery Strategies for Antisense Oligonucleotide Therapeutics*, ed. Akhtar, 1995, Maurer *et al.*, 1999, *Mol. Membr. Biol.*, 16, 129-140; Hofland and Huang, 1999, *Handb. Exp. Pharmacol.*, 137, 165-192; and Lee *et al.*, 2000, *ACS Symp. Ser.*, 752, 184-192, all of which are incorporated herein by reference. Sullivan *et al.*, PCT WO 94/02595, further describes the general methods for delivery of enzymatic nucleic acid molecules. These protocols can be utilized for the delivery of virtually any nucleic acid molecule. Nucleic acid molecules can be administered to cells by a variety of methods known to those of skill in the art, including, but not restricted to, encapsulation in liposomes, by iontophoresis, or by incorporation into other vehicles, such as hydrogels, cyclodextrins, biodegradable nanocapsules, and bioadhesive microspheres, or by proteinaceous vectors (O'Hare and Normand, International PCT Publication No. WO 00/53722). Alternatively, the nucleic acid/vehicle combination is locally delivered by direct injection or by use of an infusion pump. Direct injection of the nucleic acid molecules of the invention, whether subcutaneous, intramuscular, or intradermal, can take place using standard needle and syringe methodologies, or by needle-free technologies such as those described in Conry *et al.*, 1999, *Clin. Cancer Res.*, 5, 2330-2337 and Barry *et al.*, International PCT Publication No. WO 99/31262.

Specific methods of delivery that can be utilized for CNS delivery of the nucleic acid molecules of the invention are described in Pardridge, 1999, *Adv. Drug Delivery Rev.*, 36, 299-321 and Boado *et al.*, 1998, *J. Pharm. Sci.*, 87, 1308-1315. Many examples in the art describe CNS delivery methods of oligonucleotides by osmotic pump, (see Chun *et al.*, 1998, *Neuroscience Letters*, 257, 135-138, D'Aldin *et al.*, 1998, *Mol. Brain Research*, 55, 151-164, Dryden *et al.*, 1998, *J. Endocrinol.*, 157, 169-175, Ghimikar *et al.*, 1998, *Neuroscience Letters*, 247, 21-24) or direct infusion (Broaddus *et al.*, 1997, *Neurosurg. Focus*, 3, article 4). Other routes of delivery include, but are not limited to, oral (tablet or pill form), pulmonary (Patton, 1996, *Adv. Drug Delivery Rev.*, 19, 3-36) and/or intrathecal delivery (Gold, 1997, *Neuroscience*, 76, 1153-1158). For a comprehensive review on drug delivery strategies including broad coverage of CNS delivery, see Jain, *Drug Delivery Systems: Technologies and Commercial Opportunities*, Decision Resources, 1998. More detailed descriptions of nucleic acid delivery and administration are provided in Sullivan *et al.*, supra, Draper *et al.*, PCT WO93/23569, Beigelman *et al.*, PCT WO99/05094, and Klimuk *et al.*, PCT WO99/04819 all of which have been incorporated by reference herein.

The molecules of the instant invention can be used as pharmaceutical agents. Pharmaceutical agents prevent, inhibit the occurrence, or treat (alleviate a symptom to some extent, or all of the symptoms) of a disease state in a patient.

Thus, the invention features a pharmaceutical composition comprising one or more nucleic acid(s) of the invention in an acceptable carrier, such as a stabilizer, buffer, and the like. The negatively charged polynucleotides of the invention can be administered (*e.g.*, RNA, DNA or protein) and introduced into a patient by any standard means, with or without stabilizers, buffers, and the like, to form a pharmaceutical composition. When it is desired to use a lipid or liposome delivery mechanism, standard protocols for formulation can be followed. The compositions of the present invention can also be formulated and used as tablets, capsules or elixirs for oral administration, suppositories for rectal administration, sterile solutions, suspensions for injectable administration; and the like.

The present invention also includes pharmaceutically acceptable formulations of the compounds described. These formulations include salts of the above compounds, *e.g.*, acid addition salts, for example, salts of hydrochloric, hydrobromic, acetic acid, and benzene sulfonic acid.

A pharmacological composition or formulation refers to a composition or formulation in a form suitable for administration, *e.g.*, systemic administration, into a cell or patient, including for example a human. Suitable forms, in part, depend upon the use or the route of entry, for example oral, transdermal, or by injection. Such forms should not prevent the composition or formulation from reaching a target cell (*i.e.*, a cell to which the negatively charged nucleic acid is desirable for delivery). For example, pharmacological compositions injected into the blood stream should be soluble. Other factors are known in the art, and include considerations such as toxicity and forms that prevent the composition or formulation from exerting its effect.

By "systemic administration" is meant *in vivo* systemic absorption or accumulation of drugs in the blood stream followed by distribution throughout the entire body. Administration routes that can lead to systemic absorption include, without limitations: intravenous, subcutaneous, intraperitoneal, inhalation, oral, intrapulmonary and intramuscular. Each of these administration routes expose the desired negatively charged polymers, *e.g.*, nucleic acids, to an accessible diseased tissue. The rate of entry of a drug into

the circulation has been shown as a function of molecular weight or size. The use of a liposome or other drug carrier comprising the compounds of the instant invention can potentially localize the drug, for example, in certain tissue types, such as the tissues of the reticular endothelial system (RES). A liposome formulation that can facilitate the association of drug with the surface of cells, such as, lymphocytes and macrophages is also useful. This approach can provide enhanced delivery of the drug to target cells by taking advantage of the specificity of macrophage and lymphocyte immune recognition of abnormal cells, such as the WNV infected liver cells.

By "pharmaceutically acceptable" formulation is meant, a composition or formulation that allows for the effective distribution of the nucleic acid molecules of the instant invention in the physical location most suitable for their desired activity. Nonlimiting examples of agents suitable for formulation with the nucleic acid molecules of the instant invention include: P-glycoprotein inhibitors (such as Pluronic P85) that can enhance entry of drugs into the CNS (Jolliet-Riant and Tillement, 1999, *Fundam. Clin. Pharmacol.*, 13, 16-26); biodegradable polymers, such as poly (DL-lactide-co-glycolide) microspheres for sustained release delivery after intracerebral implantation (Emerich, DF et al, 1999, *Cell Transplant*, 8, 47-58) Alkermes, Inc. Cambridge, MA; and loaded nanoparticles, such as those made of polybutylcyanoacrylate, that can deliver drugs across the blood brain barrier and can alter neuronal uptake mechanisms (*Prog Neuropsychopharmacol Biol Psychiatry*, 23, 941-949, 1999). Other non-limiting examples of CNS delivery strategies for the nucleic acid molecules of the instant invention include material described in Boado et al., 1998, *J. Pharm. Sci.*, 87, 1308-1315; Tyler et al., 1999, *FEBS Lett.*, 421, 280-284; Pardridge et al., 1995, *PNAS USA.*, 92, 5592-5596; Boado, 1995, *Adv. Drug Delivery Rev.*, 15, 73-107; Aldrian-Herrada et al., 1998, *Nucleic Acids Res.*, 26, 4910-4916; and Tyler et al., 1999, *PNAS USA.*, 96, 7053-7058.

The invention also features the use of a composition comprising surface-modified liposomes containing poly (ethylene glycol) lipids (PEG-modified, or long-circulating liposomes or stealth liposomes). These formulations offer an method for increasing the accumulation of drugs in target tissues. This class of drug carriers resists opsonization and elimination by the mononuclear phagocytic system (MPS or RES), thereby enabling longer blood circulation times and enhanced tissue exposure for the encapsulated drug (Lasic *et al. Chem. Rev.* 1995, 95, 2601-2627; Ishiwata *et al., Chem. Pharm. Bull.* 1995, 43, 1005-1011). Such liposomes have been shown to accumulate selectively in tumors, presumably by

extravasation and capture in the neovascularized target tissues (Lasic *et al.*, *Science* 1995, 267, 1275-1276; Oku *et al.*, 1995, *Biochim. Biophys. Acta*, 1238, 86-90). The long-circulating liposomes enhance the pharmacokinetics and pharmacodynamics of DNA and RNA, particularly compared to conventional cationic liposomes that are known to accumulate in tissues of the MPS (Liu *et al.*, *J. Biol. Chem.* 1995, 42, 24864-24870; Choi *et al.*, International PCT Publication No. WO 96/10391; Ansell *et al.*, International PCT Publication No. WO 96/10390; Holland *et al.*, International PCT Publication No. WO 96/10392; all of these are incorporated by reference herein). Long-circulating liposomes are also likely to protect drugs from nuclease degradation to a greater extent compared to cationic liposomes, based on their ability to avoid accumulation in metabolically aggressive MPS tissues such as the liver and spleen. All of these references are incorporated by reference herein.

In addition, other cationic molecules can also be utilized to deliver the molecules of the present invention. For example, nucleic acid molecule can be conjugated to glycosylated poly(L-lysine) that has been shown to enhance localization of antisense oligonucleotides into the liver (Nakazono *et al.*, 1996, *Hepatology* 23, 1297-1303; Nahato *et al.*, 1997, *Biochem Pharm.* 53, 887-895). Glycosylated poly(L-lysine) can be covalently attached to the enzymatic nucleic acid or be bound to enzymatic nucleic acid through electrostatic interaction.

The present invention also includes compositions prepared for storage or administration that include a pharmaceutically effective amount of the desired compounds in a pharmaceutically acceptable carrier or diluent. Acceptable carriers or diluents for therapeutic use are well known in the pharmaceutical art, and are described, for example, in *Remington's Pharmaceutical Sciences*, Mack Publishing Co. (A.R. Gennaro edit. 1985), hereby incorporated by reference herein. For example, preservatives, stabilizers, dyes and flavoring agents can be provided. These include sodium benzoate, sorbic acid and esters of *p*-hydroxybenzoic acid. In addition, antioxidants and suspending agents can be used.

A pharmaceutically effective dose is that dose required to prevent, inhibit the occurrence, or treat (alleviate a symptom to some extent, preferably all of the symptoms) of a disease state. The pharmaceutically effective dose depends on the type of disease, the composition used, the route of administration, the type of mammal being treated, the physical characteristics of the specific mammal under consideration, concurrent medication, and other factors that those skilled in the medical arts will recognize. Generally, an amount between

0.1 mg/kg and 100 mg/kg body weight/day of active ingredients is administered dependent upon potency of the negatively charged polymer.

The nucleic acid molecules of the invention and formulations thereof can be administered orally, topically, parenterally, by inhalation or spray, or rectally in dosage unit formulations containing conventional non-toxic pharmaceutically acceptable carriers, adjuvants and/or vehicles. The term parenteral as used herein includes percutaneous, subcutaneous, intravascular (e.g., intravenous), intramuscular, or intrathecal injection or infusion techniques and the like. In addition, there is provided a pharmaceutical formulation comprising a nucleic acid molecule of the invention and a pharmaceutically acceptable carrier. One or more nucleic acid molecules of the invention can be present in association with one or more non-toxic pharmaceutically acceptable carriers and/or diluents and/or adjuvants, and if desired other active ingredients. The pharmaceutical compositions containing nucleic acid molecules of the invention can be in a form suitable for oral use, for example, as tablets, troches, lozenges, aqueous or oily suspensions, dispersible powders or granules, emulsion, hard or soft capsules, or syrups or elixirs.

Compositions intended for oral use can be prepared according to any method known to the art for the manufacture of pharmaceutical compositions and such compositions can contain one or more such sweetening agents, flavoring agents, coloring agents or preservative agents in order to provide pharmaceutically elegant and palatable preparations. Tablets contain the active ingredient in admixture with non-toxic pharmaceutically acceptable excipients that are suitable for the manufacture of tablets. These excipients can be for example, inert diluents, such as calcium carbonate, sodium carbonate, lactose, calcium phosphate or sodium phosphate; granulating and disintegrating agents, for example, corn starch, or alginic acid; binding agents, for example starch, gelatin or acacia, and lubricating agents, for example magnesium stearate, stearic acid or talc. The tablets can be uncoated or they can be coated by known techniques. In some cases such coatings can be prepared by known techniques to delay disintegration and absorption in the gastrointestinal tract and thereby provide a sustained action over a longer period. For example, a time delay material such as glyceryl monostearate or glyceryl distearate can be employed.

Formulations for oral use can also be presented as hard gelatin capsules wherein the active ingredient is mixed with an inert solid diluent, for example, calcium carbonate, calcium phosphate or kaolin, or as soft gelatin capsules wherein the active ingredient is mixed with water or an oil medium, for example peanut oil, liquid paraffin or olive oil.

Aqueous suspensions contain the active materials in admixture with excipients suitable for the manufacture of aqueous suspensions. Such excipients are suspending agents, for example sodium carboxymethylcellulose, methylcellulose, hydropropyl-methylcellulose,

sodium alginate, polyvinylpyrrolidone, gum tragacanth and gum acacia; dispersing or wetting agents can be a naturally-occurring phosphatide, for example, lecithin, or condensation products of an alkylene oxide with fatty acids, for example polyoxyethylene stearate, or condensation products of ethylene oxide with long chain aliphatic alcohols, for example heptadecaethyleneoxycetanol, or condensation products of ethylene oxide with partial esters derived from fatty acids and a hexitol such as polyoxyethylene sorbitol monooleate, or condensation products of ethylene oxide with partial esters derived from fatty acids and hexitol anhydrides, for example polyethylene sorbitan monooleate. The aqueous suspensions can also contain one or more preservatives, for example ethyl, or n-propyl p-hydroxybenzoate, one or more coloring agents, one or more flavoring agents, and one or more sweetening agents, such as sucrose or saccharin.

Oily suspensions can be formulated by suspending the active ingredients in a vegetable oil, for example arachis oil, olive oil, sesame oil or coconut oil, or in a mineral oil such as liquid paraffin. The oily suspensions can contain a thickening agent, for example beeswax, hard paraffin or cetyl alcohol. Sweetening agents and flavoring agents can be added to provide palatable oral preparations. These compositions can be preserved by the addition of an anti-oxidant such as ascorbic acid.

Dispersible powders and granules suitable for preparation of an aqueous suspension by the addition of water provide the active ingredient in admixture with a dispersing or wetting agent, suspending agent and one or more preservatives. Suitable dispersing or wetting agents or suspending agents are exemplified by those already mentioned above. Additional excipients, for example sweetening, flavoring and coloring agents, can also be present.

Pharmaceutical compositions of the invention can also be in the form of oil-in-water emulsions. The oily phase can be a vegetable oil or a mineral oil or mixtures of these. Suitable emulsifying agents can be naturally-occurring gums, for example gum acacia or gum tragacanth, naturally-occurring phosphatides, for example soy bean, lecithin, and esters or partial esters derived from fatty acids and hexitol, anhydrides, for example sorbitan monooleate, and condensation products of the said partial esters with ethylene oxide, for example polyoxyethylene sorbitan monooleate. The emulsions can also contain sweetening and flavoring agents.

Syrups and elixirs can be formulated with sweetening agents, for example glycerol, propylene glycol, sorbitol, glucose or sucrose. Such formulations can also contain a demulcent, a preservative and flavoring and coloring agents. The pharmaceutical compositions can be in the form of a sterile injectable aqueous or oleaginous suspension. This suspension can be formulated according to the known art using those suitable dispersing

or wetting agents and suspending agents that have been mentioned above. The sterile injectable preparation can also be a sterile injectable solution or suspension in a non-toxic parentally acceptable diluent or solvent, for example as a solution in 1,3-butanediol. Among the acceptable vehicles and solvents that can be employed are water, Ringer's solution and isotonic sodium chloride solution. In addition, sterile, fixed oils are conventionally employed as a solvent or suspending medium. For this purpose any bland fixed oil can be employed including synthetic mono-or diglycerides. In addition, fatty acids such as oleic acid find use in the preparation of injectables.

The nucleic acid molecules of the invention can also be administered in the form of suppositories, *e.g.*, for rectal administration of the drug. These compositions can be prepared by mixing the drug with a suitable non-irritating excipient that is solid at ordinary temperatures but liquid at the rectal temperature and will therefore melt in the rectum to release the drug. Such materials include cocoa butter and polyethylene glycols.

Nucleic acid molecules of the invention can be administered parenterally in a sterile medium. The drug, depending on the vehicle and concentration used, can either be suspended or dissolved in the vehicle. Advantageously, adjuvants such as local anesthetics, preservatives and buffering agents can be dissolved in the vehicle.

Dosage levels of the order of from about 0.1 mg to about 140 mg per kilogram of body weight per day are useful in the treatment of the above-indicated conditions (about 0.5 mg to about 7 g per patient per day). The amount of active ingredient that can be combined with the carrier materials to produce a single dosage form varies depending upon the host treated and the particular mode of administration. Dosage unit forms generally contain between from about 1 mg to about 500 mg of an active ingredient.

It is understood that the specific dose level for any particular patient depends upon a variety of factors including the activity of the specific compound employed, the age, body weight, general health, sex, diet, time of administration, route of administration, and rate of excretion, drug combination and the severity of the particular disease undergoing therapy.

For administration to non-human animals, the composition can also be added to the animal feed or drinking water. It can be convenient to formulate the animal feed and drinking water compositions so that the animal takes in a therapeutically appropriate quantity of the composition along with its diet. It can also be convenient to present the composition as a premix for addition to the feed or drinking water.

The nucleic acid molecules of the present invention can also be administered to a patient in combination with other therapeutic compounds to increase the overall therapeutic

effect. The use of multiple compounds to treat an indication can increase the beneficial effects while reducing the presence of side effects.

Alternatively, the enzymatic nucleic acid molecules of the instant invention can be expressed within cells from eukaryotic promoters (e.g., Izant and Weintraub, 1985 *Science* 229, 345; McGarry and Lindquist, 1986 *Proc. Natl. Acad. Sci. USA* 83, 399; Scanlon *et al.*, 1991, *Proc. Natl. Acad. Sci. USA*, 88, 10591-5; Kashani-Sabet *et al.*, 1992 *Antisense Res. Dev.*, 2, 3-15; Dropulic *et al.*, 1992 *J. Virol.*, 66, 1432-41; Weerasinghe *et al.*, 1991 *J. Virol.*, 65, 5531-4; Ojwang *et al.*, 1992 *Proc. Natl. Acad. Sci. USA* 89, 10802-6; Chen *et al.*, 1992 *Nucleic Acids Res.*, 20, 4581-9; Sarver *et al.*, 1990 *Science* 247, 1222-1225; Thompson *et al.*, 1995 *Nucleic Acids Res.* 23, 2259; Good *et al.*, 1997, *Gene Therapy*, 4, 45; all of the references are hereby incorporated in their totality by reference herein). Those skilled in the art realize that any nucleic acid can be expressed in eukaryotic cells from the appropriate DNA/RNA vector. The activity of such nucleic acids can be augmented by their release from the primary transcript by a enzymatic nucleic acid (Draper *et al.*, PCT WO 93/23569, and Sullivan *et al.*, PCT WO 94/02595; Ohkawa *et al.*, 1992 *Nucleic Acids Symp. Ser.*, 27, 15-6; Taira *et al.*, 1991, *Nucleic Acids Res.*, 19, 5125-30; Ventura *et al.*, 1993 *Nucleic Acids Res.*, 21, 3249-55; Chowrira *et al.*, 1994 *J. Biol. Chem.* 269, 25856; all of the references are hereby incorporated in their totality by reference herein).

In another aspect of the invention, RNA molecules of the present invention can be expressed from transcription units (see for example Couture *et al.*, 1996, *TIG.*, 12, 510) inserted into DNA or RNA vectors. The recombinant vectors can be DNA plasmids or viral vectors. Ribozyme expressing viral vectors can be constructed based on, but not limited to, adeno-associated virus, retrovirus, adenovirus, or alphavirus. The recombinant vectors capable of expressing the nucleic acid molecules can be delivered as described above, and persist in target cells. Alternatively, viral vectors can be used that provide for transient expression of nucleic acid molecules. Such vectors can be repeatedly administered as necessary. Once expressed, the nucleic acid molecule binds to the target mRNA. Delivery of nucleic acid molecule expressing vectors can be systemic, such as by intravenous or intramuscular administration, by administration to target cells ex-planted from the patient followed by reintroduction into the patient, or by any other means that would allow for introduction into the desired target cell (for a review see Couture *et al.*, 1996, *TIG.*, 12, 510).

In one aspect, the invention features an expression vector comprising nucleic acid sequence encoding at least one of the nucleic acid molecules of the instant invention. The

nucleic acid sequence encoding the nucleic acid molecules of the instant invention is operably linked in a manner that allows expression of that nucleic acid molecule.

In another aspect, the invention features an expression vector comprising: a) a transcription initiation region (e.g., eukaryotic pol I, II or III initiation region); b) a transcription termination region (e.g., eukaryotic pol I, II or III termination region); c) a nucleic acid sequence encoding at least one of the nucleic acid molecules of the instant invention; and wherein said sequence is operably linked to said initiation region and said termination region, in a manner that allows expression and/or delivery of said nucleic acid molecule. The vector can optionally include an open reading frame (ORF) for a protein operably linked on the 5' side or the 3'-side of the sequence encoding the nucleic acid catalyst of the invention; and/or an intron (intervening sequences).

Transcription of the nucleic acid molecule sequences can be driven from a promoter for eukaryotic RNA polymerase I (pol I), RNA polymerase II (pol II), or RNA polymerase III (pol III). Transcripts from pol II or pol III promoters are generally expressed at high levels in all cells; the levels of a given pol II promoter in a given cell type will depend on the nature of the gene regulatory sequences (enhancers, silencers, etc.) present nearby. Prokaryotic RNA polymerase promoters can be also used, providing that the prokaryotic RNA polymerase enzyme is expressed in the appropriate cells (Elroy-Stein and Moss, 1990, *Proc. Natl. Acad. Sci. U S A*, 87, 6743-7; Gao and Huang 1993, *Nucleic Acids Res.*, 21, 2867-72; Lieber et al., 1993, *Methods Enzymol.*, 217, 47-66; Zhou et al., 1990, *Mol. Cell. Biol.*, 10, 4529-37). All of these references are incorporated by reference herein. Several investigators have demonstrated that nucleic acid molecules, such as enzymatic nucleic acids, expressed from such promoters function in mammalian cells (e.g. Kashani-Sabet et al., 1992, *Antisense Res. Dev.*, 2, 3-15; Ojwang et al., 1992, *Proc. Natl. Acad. Sci. U S A*, 89, 10802-6; Chen et al., 1992, *Nucleic Acids Res.*, 20, 4581-9; Yu et al., 1993, *Proc. Natl. Acad. Sci. U S A*, 90, 6340-4; L'Huillier et al., 1992, *EMBO J.*, 11, 4411-8; Lisiewicz et al., 1993, *Proc. Natl. Acad. Sci. U. S. A.*, 90, 8000-4; Thompson et al., 1995, *Nucleic Acids Res.*, 23, 2259; Sullenger & Cech, 1993, *Science*, 262, 1566). More specifically, transcription units such as the ones derived from genes encoding U6 small nuclear (snRNA), transfer RNA (tRNA) and adenovirus VA RNA are useful in generating high concentrations of desired RNA molecules such as enzymatic nucleic acids in cells (Thompson et al., *supra*; Couture and Stinchcomb, 1996, *supra*; Noonberg et al., 1994, *Nucleic Acid Res.*, 22, 2830; Noonberg et al., US Patent No. 5,624,803; Good et al., 1997, *Gene Ther.*, 4, 45; Beigelman et al., International PCT

Publication No. *WO 96/18736*; all of these publications are incorporated by reference herein. The above enzymatic nucleic acid transcription units can be incorporated into a variety of vectors for introduction into mammalian cells, including but not restricted to, plasmid DNA vectors, viral DNA vectors (such as adenovirus or adeno-associated virus vectors), or viral RNA vectors (such as retroviral or alphavirus vectors) (for a review see Couture and Stinchcomb, 1996, *supra*).

In yet another aspect, the invention features an expression vector comprising nucleic acid sequence encoding at least one of the nucleic acid molecules of the invention, in a manner that allows expression of that nucleic acid molecule. The expression vector comprises in one embodiment; a) a transcription initiation region; b) a transcription termination region; and c) a nucleic acid sequence encoding at least one said nucleic acid molecule, wherein said sequence is operably linked to said initiation region and said termination region, in a manner that allows expression and/or delivery of said nucleic acid molecule.

In another embodiment, the expression vector comprises: a) a transcription initiation region; b) a transcription termination region; c) an open reading frame; and d) a nucleic acid sequence encoding at least one said nucleic acid molecule, wherein said sequence is operably linked to the 3'-end of said open reading frame and wherein said sequence is operably linked to said initiation region, said open reading frame and said termination region, in a manner that allows expression and/or delivery of said nucleic acid molecule.

In yet another embodiment, the expression vector comprises: a) a transcription initiation region; b) a transcription termination region; c) an intron; and d) a nucleic acid sequence encoding at least one said nucleic acid molecule, wherein said sequence is operably linked to said initiation region, said intron and said termination region, in a manner that allows expression and/or delivery of said nucleic acid molecule.

In another embodiment, the expression vector comprises: a) a transcription initiation region; b) a transcription termination region; c) an intron; d) an open reading frame; and e) a nucleic acid sequence encoding at least one said nucleic acid molecule, wherein said sequence is operably linked to the 3'-end of said open reading frame and wherein said sequence is operably linked to said initiation region, said intron, said open reading frame and said termination region, in a manner that allows expression and/or delivery of said nucleic acid molecule.

The nucleic acid molecules of the present invention can also be administered to a patient in combination with other therapeutic compounds to increase the overall therapeutic effect. The use of multiple compounds to treat an indication can increase the beneficial effects while reducing the presence of side effects.

Interferons

Type I interferons (IFN) are a class of natural cytokines that includes a family of greater than twenty-five IFN- α (Pesta, 1986, *Methods Enzymol.* 119, 3-14) as well as IFN- β , and IFN- ω . Although evolutionarily derived from the same gene (Diaz *et al.*, 1994, *Genomics* 22, 540-552), there are many differences in the primary sequence of these molecules, implying an evolutionary divergence in biologic activity. All type I IFN share a common pattern of biologic effects that begin with binding of the IFN to the cell surface receptor (Pfeffer & Strulovici, 1992, Transmembrane secondary messengers for IFN- α/β , In: *Interferon. Principles and Medical Applications.*, S. Baron, D.H. Coopenhaver, F. Dianzani, W.R. Fleischmann Jr., T.K. Hughes Jr., G.R. Kimpel, D.W. Niesel, G.J. Stanton, and S.K. Tying, eds. 151-160). Binding is followed by activation of tyrosine kinases, including the Janus tyrosine kinases and the STAT proteins, which leads to the production of several IFN-stimulated gene products (Johnson *et al.*, 1994, *Sci. Am.* 270, 68-75). The IFN-stimulated gene products are responsible for the pleiotropic biologic effects of type I IFN, including antiviral, antiproliferative, and immunomodulatory effects, cytokine induction, and HLA class I and class II regulation (Pestka *et al.*, 1987, *Annu. Rev. Biochem* 56, 727). Examples of IFN-stimulated gene products include 2-5-oligoadenylate synthetase (2-5 OAS), β_2 -microglobulin, neopterin, p68 kinases, and the Mx protein (Chebath & Revel, 1992, The 2-5 A system: 2-5 A synthetase, isospecies and functions. In: *Interferon. Principles and Medical Applications.* S. Baron, D.H. Coopenhaver, F. Dianzani, W.R. Jr. Fleischmann, T.K. Jr Hughes, G.R. Kimpel, D.W. Niesel, G.J. Stanton, and S.K. Tying, eds., pp. 225-236; Samuel, 1992, The RNA-dependent P1/eIF-2 α protein kinase. In: *Interferon. Principles and Medical Applications.* S. Baron, D.H. Coopenhaver, F. Dianzani, W.R. Fleischmann Jr., T.K. Hughes Jr., G.R. Kimpel, D.W. Niesel, G.H. Stanton, and S.K. Tying, eds. 237-250; Horisberger, 1992, MX protein: function and Mechanism of Action. In: *Interferon. Principles and Medical Applications.* S. Baron, D.H. Coopenhaver, F. Dianzani, W.R. Fleischmann Jr., T.K. Hughes Jr., G.R. Kimpel, D.W. Niesel, G.H. Stanton, and S.K. Tying, eds. 215-224). Although all type I IFN have similar biologic effects, not all the activities are shared by each type I IFN, and, in many

cases, the extent of activity varies quite substantially for each IFN subtype (Fish *et al.*, 1989, *J. Interferon Res.* 9, 97-114; Ozes *et al.*, 1992, *J. Interferon Res.* 12, 55-59). More specifically, investigations into the properties of different subtypes of IFN- α and molecular hybrids of IFN- α have shown differences in pharmacologic properties (Rubinstein, 1987, *J. Interferon Res.* 7, 545-551). These pharmacologic differences can arise from as few as three amino acid residue changes (Lee *et al.*, 1982, *Cancer Res.* 42, 1312-1316).

Eighty-five to 166 amino acids are conserved in the known IFN- α subtypes. Excluding the IFN- α pseudogenes, there are approximately 25 known distinct IFN- α subtypes. Pairwise comparisons of these nonallelic subtypes show primary sequence differences ranging from 2% to 23%. In addition to the naturally occurring IFNs, a non-natural recombinant type I interferon known as consensus interferon (CIFN) has been synthesized as a therapeutic compound (Tong *et al.*, 1997, *Hepatology* 26, 747-754).

Interferon is currently in use for at least 12 different indications, including infectious and autoimmune diseases and cancer (Borden, 1992, *N. Engl. J. Med.* 326, 1491-1492). For autoimmune diseases, IFN has been utilized for treatment of rheumatoid arthritis, multiple sclerosis, and Crohn's disease. For treatment of cancer, IFN has been used alone or in combination with a number of different compounds. Specific types of cancers for that IFN has been used include squamous cell carcinomas, melanomas, hypernephromas, hemangiomas, hairy cell leukemia, and Kaposi's sarcoma. In the treatment of infectious diseases, IFNs increase the phagocytic activity of macrophages and cytotoxicity of lymphocytes and inhibits the propagation of cellular pathogens. Specific indications for that IFN has been used as treatment include: hepatitis B, human papillomavirus types 6 and 11 (i.e. genital warts) (Leventhal *et al.*, 1991, *N Engl J Med* 325, 613-617), chronic granulomatous disease, and hepatitis C virus.

Nucleic acid molecules of the instant invention, in combination with IFN, have the potential to improve the effectiveness of treatment of WNV or any of the other indications discussed above. Nucleic acid molecules targeting RNAs associated with diseases such as infectious diseases, autoimmune diseases, and cancer, can be used individually or in combination with other therapies such as IFN to achieve enhanced efficacy.

Examples

The following are non-limiting examples showing the selection, isolation, synthesis and activity of nucleic acids of the instant invention.

The following examples demonstrate the selection and design of Antisense, hammerhead, DNAzyme, NCH, Amberzyme, Zinzyme, or G-Cleaver enzymatic nucleic acid molecules and binding/cleavage sites within WNV RNA.

Example 1: Identification of Potential Target Sites in Human WNV RNA

The sequence of human WNV was screened for accessible sites using a computer-folding algorithm. Regions of the RNA that do not form secondary folding structures and contained potential enzymatic nucleic acid and/or antisense binding/cleavage sites were identified. The sequences of these binding/cleavage sites are shown in Tables III-XIII.

Example 2: Selection of Enzymatic Nucleic Acid Cleavage Sites in Human WNV RNA

Enzymatic nucleic acid target sites were chosen by analyzing sequences of Human WNV (Genbank accession No: AF196835) and prioritizing the sites on the basis of folding. Enzymatic nucleic acid molecules are designed that could bind each target and are individually analyzed by computer folding (Christoffersen *et al.*, 1994 *J. Mol. Struct. Theochem*, 311, 273; Jaeger *et al.*, 1989, *Proc. Natl. Acad. Sci. USA*, 86, 7706) to assess whether the enzymatic nucleic acid molecules sequences fold into the appropriate secondary structure. Those enzymatic nucleic acid molecules with unfavorable intramolecular interactions between the binding arms and the catalytic core are eliminated from consideration. As noted below, varying binding arm lengths can be chosen to optimize activity. Generally, at least 4 bases on each arm can bind to, or otherwise interact with, the target RNA.

Example 3: Chemical Synthesis and Purification of Enzymatic nucleic acid molecules and Antisense for Efficient Cleavage and/or blocking of WNV RNA

Enzymatic nucleic acid molecules and antisense constructs can be designed to anneal to various sites in the RNA transcript. The binding arms of the enzymatic nucleic acid molecules are complementary to the target site sequences described above, while the antisense constructs are complementary to the target site sequences described above. The enzymatic nucleic acid molecules and antisense constructs can be chemically synthesized using, for example, RNA syntheses such as those described above and those described in Usman *et al.*, (1987 *J. Am. Chem. Soc.*, 109, 7845), Scaringe *et al.*, (1990 *Nucleic Acids Res.*, 18, 5433) and Wincott *et al.*, *supra*. Such methods make use of common nucleic acid protecting and coupling groups, such as dimethoxytrityl at the 5'-end, and phosphoramidites at the 3'-end. The average stepwise coupling yields are typically >98%.

Enzymatic nucleic acid molecules and antisense constructs also can be synthesized from DNA templates using bacteriophage T7 RNA polymerase (Milligan and Uhlenbeck, 1989, Methods Enzymol. 180, 51). Enzymatic nucleic acid molecules and antisense constructs are purified by gel electrophoresis using known methods, or are purified by high pressure liquid chromatography (HPLC; See Wincott et al., supra; the totality of which is hereby incorporated herein by reference), and are resuspended in water. The sequences of chemically synthesized enzymatic nucleic acid constructs are shown below in Table III-XIII. The enzymatic nucleic acid molecules shown in Table XIII were chemically synthesized. The sequences of chemically synthesized antisense constructs are complimentary sequences to the Substrate sequences shown below as in Table III-XIII.

Example 4: Enzymatic nucleic acid molecule Cleavage of WNV RNA Target *in vitro*

Enzymatic nucleic acid molecules targeted to the human WNV RNA are designed and synthesized as described above. These enzymatic nucleic acid molecules can be tested for cleavage activity *in vitro*, for example using the following procedure. The target sequences and the nucleotide location within the WNV RNA are given in Tables III-XIII.

Cleavage Reactions: Full-length or partially full-length, internally-labeled target RNA for the enzymatic nucleic acid cleavage assay is prepared by *in vitro* transcription in the presence of [α - 32 P] CTP, passed over a G 50 Sephadex column by spin chromatography and used as substrate RNA without further purification. Alternately, substrates are 5'- 32 P-end labeled using T4 polynucleotide kinase enzyme. Assays are performed by pre-warming a 2X concentration of purified enzymatic nucleic acid in cleavage buffer (50 mM Tris-HCl, pH 7.5 at 37°C, 10 mM MgCl₂), and the cleavage reaction is initiated by adding the 2X enzymatic nucleic acid mix to an equal volume of substrate RNA (maximum of 1-5 nM) that was also pre-warmed in cleavage buffer. As an initial screen, assays are carried out for 3 hours at 37°C using a final concentration of either 40 nM or 1 mM enzymatic nucleic acid molecule, *i.e.*, enzymatic nucleic acid molecule excess. The reaction is quenched by the addition of an equal volume of 95% formamide, 20 mM EDTA, 0.05% bromophenol blue and 0.05% xylene cyanol after which the sample is heated to 95°C for 2 minutes, quick chilled and loaded onto a denaturing polyacrylamide gel. Substrate RNA and the specific RNA cleavage products generated by enzymatic nucleic acid cleavage are visualized on an autoradiograph of the gel. The percentage of cleavage is determined by Phosphor Imager[®] quantitation of bands representing the intact substrate and the cleavage products. Using the methods described, five different enzymatic nucleic acid molecules of different motifs were tested for cleavage activity. The results of this study are shown in Table XIV, which shows cleavage data for five different enzymatic nucleic acid motifs (Hammerhead, Inozyme, DNAzyme, Amberzyme and Zinzyme).

Example 5: Nucleic acid inhibition of WNV target RNA *in vivo*

Nucleic acid molecules targeted to the human WNV RNA are designed and synthesized as described above. These nucleic acid molecules can be tested for cleavage activity *in vivo*, for example, using the procedures described below. The target sequences and the nucleotide location within the WNV RNA are given in **Tables III-XIII**.

Cell Culture Assays

HeLa cells are seeded in 96-well plates at a density of 9000-10,000 cells/well and incubated at 37°C under 5% CO₂ for 24 h. Vero and/or BHK-21 cells can also be used. Cells are then infected with WNV for 1 hour at a multiplicity of infection of 2 in a total volume of 0.1 ml per well. Transfection of enzymatic nucleic acid (for example, enzymatic nucleic acid molecule of SEQ ID NOS. 37019-37043) or control oligonucleotides (scrambled or binding-attenuated core sequence; 50 - 200 nM final) is achieved by mixing 5X enzymatic nucleic acid or control oligonucleotides (250 - 1000 nM) and 5X of a cationic lipid in DMEM with 5% fetal bovine serum (FBS) in U-bottom 96-well plates. Enzymatic nucleic acid/lipid complexes are allowed to incubate for 15 min at 37°C under 5% CO₂. The viral inoculum is aspirated from cells and replaced with 80 µl of DMEM with 5% FBS serum and 20 µl of 5X nucleic acid/lipid complexes. Cells are incubated with 5X complexes for 24 h at 37°C under 5% CO₂. After 24 h, intracellular virus released after freeze/thaw and/or virus secreted into the media is quantified by plaque assay or by a cytopathic effect limiting dilution assay. In addition, viral protein and viral RNA can be analyzed by ELISA and RT-PCR, respectively.

Animal Models

WNV infectivity has been studied in mice (Ben-Nathan *et al.*, 1996m *Arch. Virol.*, 141, 459-469; Chambers *et al.*, 1998, 79, 2375-2380). Mouse models such as those described can be used to study inhibition of WNV by the nucleic acid molecules of the instant invention. For example, the induction to WNV infection in mice has been demonstrated, resulting in penetration of WNV into the central nervous system. Viral infection in mice is exacerbated when animals are macrophage depleted, resulting in higher and extended viremia and accelerated development of encephalitis and death. Both macrophage intact and macrophage depleted mice thus infected with WNV are treated with enzymatic nucleic acids of the invention (SEQ ID NOS: 37019-37043) along with relevant scrambled or attenuated controls via sub-cutaneous injection or intraperitoneal injection. Viral load and mortality are

used as endpoints in the study. As noted in Ben-Nathan *et al.*, *supra*, an increase in mortality from 50% to 100% results in macrophage depleted mice. A decrease in mortality based on these percentages with a similar decrease in viral load in these animals is indicative of a therapeutic effect mediated by nucleic acid molecules of the invention.

Diagnostic uses

Enzymatic nucleic acid molecules of this invention can be used as diagnostic tools to examine genetic drift and mutations within diseased cells or to detect the presence of *WNV* RNA in a cell. The close relationship between enzymatic nucleic acid activity and the structure of the target RNA allows the detection of mutations in any region of the molecule that alters the base-pairing and three-dimensional structure of the target RNA. By using multiple enzymatic nucleic acid molecules described in this invention, one can map nucleotide changes that are important to RNA structure and function *in vitro*, as well as in cells and tissues *in vivo*. Cleavage of target RNAs with enzymatic nucleic acid molecules can be used to inhibit gene expression and define the role of specified gene products in the progression of disease. In this manner, other genetic targets can be defined as important mediators of the disease. Such methods can improve treatment of the disease by affording the possibility of combination therapies (e.g., multiple enzymatic nucleic acid molecules targeted to different genes, enzymatic nucleic acid molecules coupled with known small molecule inhibitors, or intermittent treatment with combinations of enzymatic nucleic acid molecules and/or other chemical or biological molecules). Other *in vitro* uses of enzymatic nucleic acids of this invention are well known in the art, and include detection of the presence of mRNAs associated with WNV related condition. Such RNA is detected by determining the presence of a cleavage product after treatment with an enzymatic nucleic acid molecule using standard methodology.

Enzymatic nucleic acid molecules that can cleave only wild-type or mutant forms of the target RNA can be used for the assay. The first enzymatic nucleic acid molecule is used to identify wild-type RNA present in the sample and the second enzymatic nucleic acid molecule will be used to identify mutant RNA in the sample. As reaction controls, synthetic substrates of both wild-type and mutant RNA are cleaved by both enzymatic nucleic acid molecules to demonstrate the relative enzymatic nucleic acid efficiencies in the reactions and the absence of cleavage of the "non-targeted" RNA species. The cleavage products from the synthetic substrates also serve to generate size markers for the analysis of wild-type and

mutant RNAs in the sample population. Thus each analysis requires two enzymatic nucleic acid molecules, two substrates and one unknown sample that is combined into six reactions. The presence of cleavage products is determined using an RNase protection assay so that full-length and cleavage fragments of each RNA can be analyzed in one lane of a polyacrylamide gel. It is not absolutely required to quantify the results to gain insight into the expression of mutant RNAs and putative risk of the desired phenotypic changes in target cells. The expression of mRNA whose protein product is implicated in the development of the phenotype (*i.e.*, WNV) is adequate to establish risk. If probes of comparable specific activity are used for both transcripts, then a qualitative comparison of RNA levels is adequate and decreases the cost of the initial diagnosis. Higher mutant form to wild-type ratios are correlated with higher risk whether RNA levels are compared qualitatively or quantitatively.

Additional Uses

The sequence-specific enzymatic nucleic acid molecules of the instant invention can also have many of the same applications for the study of RNA that DNA restriction endonucleases have for the study of DNA (Nathans *et al.*, 1975 *Ann. Rev. Biochem.* 44:273). For example, the pattern of restriction fragments can be used to establish sequence relationships between two related RNAs, and large RNAs could be specifically cleaved to fragments of a size more useful for study. The ability to engineer sequence specificity of the enzymatic nucleic acid molecule is ideal for cleavage of RNAs of unknown sequence. Applicant describes the use of nucleic acid molecules to down-regulate gene expression of target genes in bacterial, microbial, fungal, viral, and eukaryotic systems including plant, or mammalian cells.

All patents and publications mentioned in the specification are indicative of the levels of skill of those skilled in the art to that the invention pertains. All references cited in this disclosure are incorporated by reference to the same extent as if each reference had been incorporated by reference in its entirety individually.

One skilled in the art would readily appreciate that the present invention is well adapted to carry out the objects and obtain the ends and advantages mentioned, as well as those inherent therein. The methods and compositions described herein as presently representative of preferred embodiments are exemplary and are not intended as limitations on the scope of the invention. Changes therein and other uses will occur to those skilled in the

art, that are encompassed within the spirit of the invention, are defined by the scope of the claims.

It will be readily apparent to one skilled in the art that varying substitutions and modifications can be made to the invention disclosed herein without departing from the scope and spirit of the invention. Thus, such additional embodiments are within the scope of the present invention and the following claims.

The invention illustratively described herein suitably can be practiced in the absence of any element or elements, limitation or limitations that are not specifically disclosed herein. The terms and expressions that have been employed are used as terms of description and not of limitation, and there is no intention that in the use of such terms and expressions of excluding any equivalents of the features shown and described or portions thereof, but it is recognized that various modifications are possible within the scope of the invention claimed. Thus, it should be understood that although the present invention has been specifically disclosed by preferred embodiments, optional features, modification and variation of the concepts herein disclosed can be resorted to by those skilled in the art, and that such modifications and variations are considered to fall within the scope of this invention as defined by the description and the appended claims.

In addition, where features or aspects of the invention are described in terms of Markush groups or other grouping of alternatives, those skilled in the art will recognize that the invention is also thereby described in terms of any individual member or subgroup of members of the Markush group or other group.

Other embodiments are within the claims that follow.

TABLE I

Characteristics of naturally occurring ribozymes

Group I Introns

- Size: ~150 to >1000 nucleotides.
- Requires a U in the target sequence immediately 5' of the cleavage site.
- Binds 4-6 nucleotides at the 5'-side of the cleavage site.
- Reaction mechanism: attack by the 3'-OH of guanosine to generate cleavage products with 3'-OH and 5'-guanosine.
- Additional protein cofactors required in some cases to help folding and maintenance of the active structure.
- Over 300 known members of this class. Found as an intervening sequence in *Tetrahymena thermophila* rRNA, fungal mitochondria, chloroplasts, phage T4, blue-green algae, and others.
- Major structural features largely established through phylogenetic comparisons, mutagenesis, and biochemical studies [i,ii].
- Complete kinetic framework established for one ribozyme [iii,iv,v,vi].
- Studies of ribozyme folding and substrate docking underway [vii,viii,ix].
- Chemical modification investigation of important residues well established [x,xi].
- The small (4-6 nt) binding site may make this ribozyme too non-specific for targeted RNA cleavage, however, the *Tetrahymena* group I intron has been used to repair a "defective" β -galactosidase message by the ligation of new β -galactosidase sequences onto the defective message [xii].

RNase P RNA (M1 RNA)

- Size: ~290 to 400 nucleotides.
- RNA portion of a ubiquitous ribonucleoprotein enzyme.
- Cleaves tRNA precursors to form mature tRNA [xiii].
- Reaction mechanism: possible attack by M^{2+} -OH to generate cleavage products with 3'-OH and 5'-phosphate.
- RNase P is found throughout the prokaryotes and eukaryotes. The RNA subunit has been sequenced from bacteria, yeast, rodents, and primates.
- Recruitment of endogenous RNase P for therapeutic applications is possible through hybridization of an External Guide Sequence (EGS) to the target RNA [xiv,xv].
- Important phosphate and 2' OH contacts recently identified [xvi,xvii].

Group II Introns

- Size: >1000 nucleotides.
- Trans cleavage of target RNAs recently demonstrated [xviii,xix].
- Sequence requirements not fully determined.
- Reaction mechanism: 2'-OH of an internal adenosine generates cleavage products with 3'-OH and a "lariat" RNA containing a 3'-5' and a 2'-5' branch point.

- Only natural ribozyme with demonstrated participation in DNA cleavage [xx,xxd] in addition to RNA cleavage and ligation.
- Major structural features largely established through phylogenetic comparisons [xxdi].
- Important 2' OH contacts beginning to be identified [xxdiii]
- Kinetic framework under development [xxdiv]

Neurospora VS RNA

- Size: ~144 nucleotides.
- Trans cleavage of hairpin target RNAs recently demonstrated [xxv].
- Sequence requirements not fully determined.
- Reaction mechanism: attack by 2'-OH 5' to the scissile bond to generate cleavage products with 2',3'-cyclic phosphate and 5'-OH ends.
- Binding sites and structural requirements not fully determined.
- Only 1 known member of this class. Found in Neurospora VS RNA.

Hammerhead Ribozyme

(see text for references)

- Size: ~13 to 40 nucleotides.
- Requires the target sequence UH immediately 5' of the cleavage site.
- Binds a variable number nucleotides on both sides of the cleavage site.
- Reaction mechanism: attack by 2'-OH 5' to the scissile bond to generate cleavage products with 2',3'-cyclic phosphate and 5'-OH ends.
- 14 known members of this class. Found in a number of plant pathogens (virusoids) that use RNA as the infectious agent.
- Essential structural features largely defined, including 2 crystal structures [xxvi,xxvii]
- Minimal ligation activity demonstrated (for engineering through *in vitro* selection) [xxviii]
- Complete kinetic framework established for two or more ribozymes [xxdx].
- Chemical modification investigation of important residues well established [xxx].

Hairpin Ribozyme

- Size: ~50 nucleotides.
- Requires the target sequence GUC immediately 3' of the cleavage site.
- Binds 4-6 nucleotides at the 5'-side of the cleavage site and a variable number to the 3'-side of the cleavage site.
- Reaction mechanism: attack by 2'-OH 5' to the scissile bond to generate cleavage products with 2',3'-cyclic phosphate and 5'-OH ends.
- 3 known members of this class. Found in three plant pathogen (satellite RNAs of the tobacco ringspot virus, arabis mosaic virus and chicory yellow mottle virus) which uses RNA as the infectious agent.
- Essential structural features largely defined [xxxi,xxxii,xxxiii,xxxiv]
- Ligation activity (in addition to cleavage activity) makes ribozyme amenable to engineering through *in vitro* selection [xxv]
- Complete kinetic framework established for one ribozyme [xxxvi].
- Chemical modification investigation of important residues begun [xxxvii,xxxviii].

H patitis Delta Virus (HDV) Ribozyme

- Size: ~60 nucleotides.
- Trans cleavage of target RNAs demonstrated [xix].
- Binding sites and structural requirements not fully determined, although no sequences 5' of cleavage site are required. Folded ribozyme contains a pseudoknot structure [xi].
- Reaction mechanism: attack by 2'-OH 5' to the scissile bond to generate cleavage products with 2',3'-cyclic phosphate and 5'-OH ends.
- Only 2 known members of this class. Found in human HDV.
- Circular form of HDV is active and shows increased nuclease stability [xli]

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Table II

Table II:

A. 2.5 μ mol Synthesis Cycle ABI 394 Instrument

Reagent	Equivalents	Amount	Wait Time* DNA	Wait Time* 2'-O-methyl	Wait Time* RNA
Phosphoramidites	6.5	163 μ L	45 sec	2.5 min	7.5 min
S-Ethyl Tetrazole	23.8	238 μ L	45 sec	2.5 min	7.5 min
Acetic Anhydride	100	233 μ L	5 sec	5 sec	5 sec
N-Methyl Imidazole	186	233 μ L	5 sec	5 sec	5 sec
TCA	176	2.3 mL	21 sec	21 sec	21 sec
Iodine	11.2	1.7 mL	45 sec	45 sec	45 sec
Beaucage	12.9	645 μ L	100 sec	300 sec	300 sec
Acetonitrile	NA	6.67 mL	NA	NA	NA

B. 0.2 μ mol Synthesis Cycle ABI 394 Instrument

Reagent	Equivalents	Amount	Wait Time* DNA	Wait Time* 2'-O-methyl	Wait Time* RNA
Phosphoramidites	15	31 μ L	45 sec	233 sec	465 sec
S-Ethyl Tetrazole	38.7	31 μ L	45 sec	233 min	465 sec
Acetic Anhydride	655	124 μ L	5 sec	5 sec	5 sec
N-Methyl Imidazole	1245	124 μ L	5 sec	5 sec	5 sec
TCA	700	732 μ L	10 sec	10 sec	10 sec
Iodine	20.6	244 μ L	15 sec	15 sec	15 sec

Table II

Beaucage	7.7	232 μ L	100 sec	300 sec	300 sec
Acetonitrile	NA	2.64 mL	NA	NA	NA

C. 0.2 μ mol Synthesis Cycle 96 well Instrument					
Reagent	Equivalents DNA/2'-O-methyl/Ribo	Amount DNA/2'-O-methyl/Ribo	Wait Time* DNA	Wait Time* 2'-O- methyl	Wait Time* Rib
Phosphoramidites	22/33/66	40/60/120 μ L	60 sec	180 sec	360sec
S-Ethyl Tetrazole	70/105/210	40/60/120 μ L	60 sec	180 min	360 sec
Acetic Anhydride	265/265/265	50/50/50 μ L	10 sec	10 sec	10 sec
N-Methyl Imidazole	502/502/502	50/50/50 μ L	10 sec	10 sec	10 sec
TCA	238/475/475	250/500/500 μ L	15 sec	15 sec	15 sec
Iodine	6.8/6.8/6.8	80/80/80 μ L	30 sec	30 sec	30 sec
Beaucage	34/51/51	80/120/120	100 sec	200 sec	200 sec
Acetonitrile	NA	1150/1150/1150 μ L	NA	NA	NA

* Wait time does not include contact time during delivery.

Table III

Table III: WNV Hammerhead Ribozyme and Target Sequence

Pos	Substrate	Seq ID	Ribozyme	R# Seq ID
30	GACAAACU U AGUAGUGU	1	ACACUACU CUGAUGAG GCCGUUAGGC CGAA AGUUGUC	15309
31	ACAAACUU A GUAGUGUU	2	AACACUAC CUGAUGAG GCCGUUAGGC CGAA AAGUUGU	15310
34	AACUUAGU A GUGUUGU	3	ACAAACAC CUGAUGAG GCCGUUAGGC CGAA ACUAAGUU	15311
39	AGUAGUGU U UGUGAGGA	4	UCCUCACA CUGAUGAG GCCGUUAGGC CGAA ACACUACU	15312
40	GUAGUGUU U GUGAGGAU	5	AUCCUCAC CUGAUGAG GCCGUUAGGC CGAA AACACUAC	15313
49	GUGAGGAU U AACACAA	6	UUGUUGUU CUGAUGAG GCCGUUAGGC CGAA AUCCUCAC	15314
50	UGAGGAUU A ACAACAAU	7	AUUGUUGU CUGAUGAG GCCGUUAGGC CGAA AAUCCUCA	15315
59	ACAACAAU U AACACAGU	8	ACUGUGUU CUGAUGAG GCCGUUAGGC CGAA AUUGUUGU	15316
60	CAACAAUU A ACACAGUG	9	CACUGUGU CUGAUGAG GCCGUUAGGC CGAA AAUUGUUG	15317
77	CGAGCUGU U UCUAGCA	10	UGCUAAGA CUGAUGAG GCCGUUAGGC CGAA ACAGCUCG	15318
78	GAGCUGUU U CUUAGCAC	11	GUGCUAAG CUGAUGAG GCCGUUAGGC CGAA AACAGCUC	15319
79	AGCUGUUU C UUAGCAGG	12	CGUGCUAA CUGAUGAG GCCGUUAGGC CGAA AAACAGCU	15320
81	CUGUUUCU U AGCACGAA	13	UUCGUGCU CUGAUGAG GCCGUUAGGC CGAA AGAACACAG	15321
82	UGUUUCUU A GCACGAAG	14	CUUCGUGC CUGAUGAG GCCGUUAGGC CGAA AAGAAACA	15322
93	ACGAAGAU C UCGAUGUC	15	GACAUCGA CUGAUGAG GCCGUUAGGC CGAA AUUUGUUG	15323
95	GAAGAUCU C GAUGUCUA	16	UAGACAUC CUGAUGAG GCCGUUAGGC CGAA AGAUCUUC	15324
101	CUCGAUGU C UAAGAAAC	17	GUUUCUUA CUGAUGAG GCCGUUAGGC CGAA ACAUCGAG	15325
103	CGAUGUCU A AGAAACCA	18	UGGUUUCU CUGAUGAG GCCGUUAGGC CGAA AGACAUCG	15326
138	CGGCGUGU C AAUAUGCU	19	AGCAUAUU CUGAUGAG GCCGUUAGGC CGAA ACAGCCCG	15327
142	CUGUCAAU A UGCUAAAA	20	UUUUAGCA CUGAUGAG GCCGUUAGGC CGAA AUUGACAG	15328
147	AAUAUGCU A AAACGCGG	21	CCGCGUUU CUGAUGAG GCCGUUAGGC CGAA AGCAUAUU	15329
170	CCGCGUGU U GUCCUUGA	22	UCAAGGAC CUGAUGAG GCCGUUAGGC CGAA ACACGCGG	15330
173	CGUGUUGU C CUUGAUUG	23	CAAUCAAG CUGAUGAG GCCGUUAGGC CGAA ACAACACG	15331
176	GUUGUCCU U GAUUGGAC	24	GUCCAUAU CUGAUGAG GCCGUUAGGC CGAA AGGACAAC	15332
180	UCCUUGAU U GGACUGAA	25	UUCAGUCC CUGAUGAG GCCGUUAGGC CGAA AUCAAAGG	15333
196	AGAGGGCU A UGUUGAGC	26	GCUCAACA CUGAUGAG GCCGUUAGGC CGAA AGCCUCU	15334
200	GGCUAUGU U GAGCCUGA	27	UCAGGCUC CUGAUGAG GCCGUUAGGC CGAA ACAUAGCC	15335
210	AGCCUGAU C GACGGCAA	28	UUGCCGUC CUGAUGAG GCCGUUAGGC CGAA AUCAGGCU	15336
228	GGGCCAAU A CGAUUUGU	29	ACAAAUUC CUGAUGAG GCCGUUAGGC CGAA AUUGGCC	15337
233	AAUACGAU U UGUGUUGG	30	CCAACACA CUGAUGAG GCCGUUAGGC CGAA AUCGUUUU	15338
234	AUACGAUU U GUGUUGGC	31	GCCAACAC CUGAUGAG GCCGUUAGGC CGAA AAUCGUUU	15339
239	AUUUGUGU U GGCUCUCU	32	AGAGAGCC CUGAUGAG GCCGUUAGGC CGAA ACACAAAU	15340
244	UGUUGGCU C UCUUGGCG	33	CGCCAAGA CUGAUGAG GCCGUUAGGC CGAA AGCCAACA	15341
246	UUGGCUCU C UUGGCGUU	34	AACGCCAA CUGAUGAG GCCGUUAGGC CGAA AGAGCCAA	15342
248	GGCUCUCU U GCGUUCU	35	AGAAGGCC CUGAUGAG GCCGUUAGGC CGAA AGAGAGCC	15343
254	CUUGGCGU U CUUCAGGU	36	ACCUGAAG CUGAUGAG GCCGUUAGGC CGAA ACGCCAAG	15344
255	UUGGCGUU C UUCAGGUU	37	AACCUGAA CUGAUGAG GCCGUUAGGC CGAA AACGCCAA	15345
257	GGCGUUCU U CAGGUUCA	38	UGAACCUG CUGAUGAG GCCGUUAGGC CGAA AGAACGCC	15346
258	GCGUUCUU C AGGUUCAC	39	GUGAACCU CUGAUGAG GCCGUUAGGC CGAA AAGAAGCG	15347
263	CUUCAGGU U CACAGCAA	40	UUGCUGUG CUGAUGAG GCCGUUAGGC CGAA ACCUGAAG	15348
264	UUCAGGUU C ACAGCAAU	41	AUUGCUGU CUGAUGAG GCCGUUAGGC CGAA AACUGGAA	15349
273	ACAGCAAU U GCUCCGAC	42	GUCGGAGC CUGAUGAG GCCGUUAGGC CGAA AUUGCUGU	15350
277	CAAUUGCU C CGACCCGA	43	UCGGGUCG CUGAUGAG GCCGUUAGGC CGAA AGCAAUUG	15351
298	UGCUGGAU C GAUGGAGA	44	UCUCCAUC CUGAUGAG GCCGUUAGGC CGAA AUCCAGCA	15352
339	AAACACCU U CUGAGUUU	45	AAACUCAG CUGAUGAG GCCGUUAGGC CGAA AGGUGUUU	15353
340	AACACCUU C UGAGUUUU	46	AAAACUCA CUGAUGAG GCCGUUAGGC CGAA AAGGUGUU	15354
346	UUCUGAGU U UUAAGAAG	47	CUUCUUAU CUGAUGAG GCCGUUAGGC CGAA ACUCAGAA	15355
347	UCUGAGUU U UAAGAAGG	48	CCUUCUUA CUGAUGAG GCCGUUAGGC CGAA AACUCAGA	15356
348	CUGAGUUU U AAGAAGGA	49	UCCUUCUU CUGAUGAG GCCGUUAGGC CGAA AAACUCAG	15357
349	UGAGUUUU A AGAAGGAA	50	UUCUUCU CUGAUGAG GCCGUUAGGC CGAA AAAACUCA	15358
360	AAGGAACU A GGGACCUU	51	AAGGUCCC CUGAUGAG GCCGUUAGGC CGAA AGUUCUUU	15359
368	AGGGACCU U GACCAGUG	52	CACUGGUC CUGAUGAG GCCGUUAGGC CGAA AGGUCCCU	15360
379	CCAGUGCU A UCAAUCGG	53	CCGAUUGA CUGAUGAG GCCGUUAGGC CGAA AGCACUGG	15361
381	AGUGCUAU C AAUCGGCG	54	CGCCGAUU CUGAUGAG GCCGUUAGGC CGAA AUAGCAU	15362
385	CUAUCAAU C GCGGAGC	55	GCUCGCCC CUGAUGAG GCCGUUAGGC CGAA AUUGAUG	15363
395	GCGGAUUU C AAAACAAA	56	UUUGUUUU CUGAUGAG GCCGUUAGGC CGAA AGCUCGCG	15364
429	ACCGGAUU U GCAGUCAU	57	AUGACUGC CUGAUGAG GCCGUUAGGC CGAA AUUCCGGU	15365
435	AUUGCAGU C AUGAUUGG	58	CCAAUUAU CUGAUGAG GCCGUUAGGC CGAA ACUGCAAU	15366
441	GUCAUGAU U GGCCUGAU	59	AUCAGGCC CUGAUGAG GCCGUUAGGC CGAA AUCAUGAC	15367

Table III

450	GGCCUGAU C GCCAGCGU	60	ACGCGGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCAGGCC	15368
459	GCCAGCGU A GGAGCAGU	61	ACUGCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGCUGGC	15369
468	GGAGCAGU U ACCUCUCU	62	GAGAGGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGCUCC	15370
469	GAGCAGUU A CCCUCUCU	63	AGAGAGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUGCUC	15371
474	GUUACCCU C UCUAACUU	64	AAGUUAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGUAA	15372
476	UACCCUCU C UAACUCC	65	GGAAGUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGGGUA	15373
478	CCCUCUCU A ACUCCAA	66	UUGGAAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGAGGG	15374
482	CUCUAACU C CCAAGGGA	67	UCCCUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUAGAG	15375
483	UCUAACUU C CAAGGGA	68	UCCCUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGUUAGA	15376
507	AUGACGGU A AAUGCUAC	69	GUAGCAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCGUCAU	15377
514	UAAAUGCU A CUGACGUC	70	GACGUCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAUUUA	15378
522	ACUGACGU C ACAGAUGU	71	ACAUCUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGUCAGU	15379
531	ACAGAUGU C AUCACGAU	72	AUCGUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUCUGU	15380
534	GAUGUCAU C ACGAUUCC	73	GGAUUCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGACAUC	15381
540	AUCACGAU U CCAACAGC	74	GCUGUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCGUGAU	15382
541	UCACGAU C CAACAGCU	75	AGCUGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUCGUGA	15383
564	AAGAACC U UGCAUUGU	76	ACAAUGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUUCUU	15384
570	CUAUGCAU U GUCAGAGC	77	GCUCUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCAUAG	15385
573	UGCAUUGU C AGAGCAAU	78	AUUGCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAAUGCA	15386
593	UGUGGGAU A CAUGUGCG	79	CGCACAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCACA	15387
607	GCGAUGAU A CUAUCACU	80	AGUGAUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCAUCGC	15388
610	AUGAUACU A UCACUUAU	81	AUAAGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUAUCAU	15389
612	GAUACUUA C ACUUAUGA	82	UCAUAAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAGUAUC	15390
616	CUAUCACU U AUGAAUGC	83	GCAUUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGAUAG	15391
617	UAUCACUU A UGAAUGCC	84	GGCAUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGUGAUA	15392
635	AGUGCUGU C GGCUGGUA	85	UACCAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGCACU	15393
643	CGGCUGGU A AUGAUCCA	86	UGGAUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAGCCG	15394
649	GUAAUGAU C CAGAAGAC	87	GUCUUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCAUAC	15395
660	GAAGACAU C GACUGUUG	88	CAACAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUCUUC	15396
667	UCGACUGU U GGUGCACA	89	UGUGCACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGUCGA	15397
680	CACAAAGU C AGCAGUCU	90	AGACUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUUGUG	15398
687	UCAGCAGU C UACGUCAG	91	CUCAGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCUGA	15399
689	AGCAGUCU A CGUCAGGU	92	ACCUGACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGACUGCU	15400
693	GUCUACGU C AGGUAUGG	93	CCAUACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGUAGAC	15401
698	CGUCAGGU A UGGAAGAU	94	AUCUUGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUGACG	15402
725	ACGCCACU C AAGACGCA	95	UGCGUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGGCGU	15403
736	GACGCAGU C GGAGGUCA	96	UGACCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGCCUC	15404
743	UCGGAGGU C ACUGACAG	97	CUGUCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUCCGA	15405
775	AAAGCACU C UAGCGAAC	98	GUUGCGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGCUUU	15406
777	AGCACUCU A GCGAACAA	99	UUGUUCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGUCGU	15407
796	AGGGGGCU U GGAUGGAC	100	GUCCAUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCCCCU	15408
824	CACAAGGU A UUUGGUAA	101	UUACCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUUGUG	15409
826	CAAGGUUU U UGUAAAA	102	UUUUACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUACCUUG	15410
827	AAGGUUUU U GGUAAAA	103	UUUUUACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUACCUU	15411
831	UAUUUGGU A AAAACAGA	104	UCUGUUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAAUA	15412
842	AACAGAAU C AUGGAUCU	105	AGAUCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUCUGU	15413
849	UCAUGGAU C UUGAGGAA	106	UUCUCAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCAUA	15414
851	AUGGAUCU U GAGGAACC	107	GGUUCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAUCCA	15415
866	CCCUGGAU A UGCCCUGG	108	CCAGGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCAGGG	15416
885	GCAGCCGU C AUUGGUUG	109	CAACCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGGCUGC	15417
888	GCCGUCAU U GGUUGGAU	110	AUCCAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGACGGC	15418
892	UCAUUGGU U GGAUGCUU	111	AAGCAUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAAUGA	15419
900	UGGAUGCU U GGGAGCAA	112	UUGCUCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAUCCA	15420
924	CAGAGAGU U GUGUUUGU	113	ACAAACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCUCUG	15421
929	AGUUGUGU U UGUCGUGC	114	GCACGACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACAACU	15422
930	GUUGUGUU U GUCGUGCU	115	AGCACGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACACAAC	15423
933	GUGUUUGU C GUGCUAUU	116	AAUAGCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAAACAC	15424
939	GUCGUGCU A UUGCUUUU	117	AAAAGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCACGAC	15425
941	CGUGCUAU U GCUUUUGG	118	CCAAAAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAGCAGC	15426
945	CUAUUGCU U UUGGUGGC	119	GCCACCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAAUAG	15427
946	UAUUGCUU U UGGUGGCC	120	GGCCACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCAAUA	15428
947	AUUGCUUU U GUGGGCCC	121	GGGCCACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAGCAAU	15429
961	CCCCAGCU U ACAGCUUC	122	GAAGCUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUGGGG	15430

Table III

962	CCCAGCUU A CAGCUUCA	123	UGAAGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCUGGG	15431
968	UUACAGCU U CAACUGCC	124	GGCAGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUGUAA	15432
969	UACAGCUU C AACUGCCU	125	AGGCAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCUGUA	15433
978	AACUGCCU U GGAUGAG	126	CUCAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGCAGUU	15434
998	CAGAGACU U CUUGGAAG	127	CUUCCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCUCUG	15435
999	AGAGACUU C UUGGAAGG	128	CCUCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGUCUCU	15436
1001	AGACUUCU U GGAAGGAG	129	CUCCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAAGUCU	15437
1013	AGGAGUGU C UGGAGCAA	130	UUGCUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACUCCU	15438
1033	GGGUGGAU U UGGUUCUC	131	GAGAACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCACCC	15439
1034	GGUGGAUU U GGUUCUCG	132	CGAGAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUCCACC	15440
1038	GAUUUGGU U CUCGAAGG	133	CCUUCGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAAAUC	15441
1039	AUUUGGUU C UCGAAGGC	134	GCCUUCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCAAU	15442
1041	UUGGUUCU C GAAGGCGA	135	UCGCCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAACCAA	15443
1063	GCGUGACU A UCAUGUCU	136	AGACAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCACGC	15444
1065	GUGACUUA C AUGUCUAA	137	UUAGACAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAGUCAC	15445
1070	UAUCAUGU C UAAGGACA	138	UGUCCUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUGAUA	15446
1072	UCAUGUCU A AGGACAAG	139	CUUGUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGACAUGA	15447
1084	ACAAGCCU A CCAUCGAU	140	AUCGAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGCUUGU	15448
1089	CCUACCAU C GAUGUGAA	141	UUCACAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGUAGG	15449
1108	UGAUGAAU A UGGAGGCG	142	CGCCUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUCAUCA	15450
1119	GAGGCCGU C AACCUGGC	143	GCCAGGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCGCCUC	15451
1134	GCAGAGGU C CGCAGUUA	144	UACUGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUCUGC	15452
1141	UCCGCAGU U AUUGCUAU	145	AUAGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGCGGA	15453
1142	CCGCAGUU A UUGCUAUU	146	AAUAGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUGCGG	15454
1144	GCAGUUAU U GCUAUUUG	147	CAAAUAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAACUGC	15455
1148	UUAUUGCU A UUUGGCUA	148	UAGCCAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAAUAA	15456
1150	AUUGCUAU U UGGCUACC	149	GGUAGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAGCAAU	15457
1151	UUGCUAUU U GGCUACCG	150	CGUAGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUAGCAA	15458
1156	AUUUGGCU A CCGUCAGC	151	GCUGACGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCCAAAU	15459
1161	GUUACCGU C AGCGAUCU	152	AGAUCGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGGUAGC	15460
1168	UCAGCGAU C UCUCACC	153	GGUGGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCGCUGA	15461
1170	AGCGAUU C UCCACCAA	154	UUGGUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAUGCGU	15462
1172	CGAUCUCU C CACCAAG	155	CUUUGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGAUCG	15463
1207	GAGAAGCU C ACAAUAGC	156	GUCAUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUUCUC	15464
1234	ACCCAGCU U UUGUGUGC	157	GCACACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUGGGU	15465
1235	CCCAGCUU U UGUGUGCA	158	UGCACACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCUGGG	15466
1236	CCAGCUUU U GUGUGCAG	159	CUGCACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAGCUGG	15467
1286	CUGCGGAU U AUUUGGCA	160	UGCCAAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCGCAG	15468
1287	UGCGGAUU A UUUGGCAA	161	UUGCCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUCCGCA	15469
1289	CGGAUUUA U UGGCAAAG	162	CUUUGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAAUCCG	15470
1290	GGAUUUAU U GGCAAAGG	163	CCUUGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUAUCC	15471
1305	GGAAGCAU U GACACAUG	164	CAUGUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCUUCC	15472
1322	CGCCAAAU U UGCCUGCU	165	AGCAGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUUGGCG	15473
1323	GCCAAAUU U GCCUGUCU	166	GAGCAGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUUGGCC	15474
1331	UGCCUGCU C UACCAAGG	167	CCUUGGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAGGCA	15475
1333	CCUGUCU A CCAAGGCA	168	UGCCUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGCAGG	15476
1344	AAGGCAAU A GGAAGAAC	169	GUUCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGCCUU	15477
1356	AGAACCAU C UUGAAAGA	170	UCUUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGUUCU	15478
1358	AACCAUCU U GAAAGAGA	171	UCUCUUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAUGGUU	15479
1369	AAGAGAAU A UCAAGUAC	172	GUACUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUCUCUU	15480
1371	GAGAAUUA C AAGUACGA	173	UCGUACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUUCUCU	15481
1376	UAUCAAGU A CGAAGUGG	174	CCACUUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUGAUA	15482
1389	GUGGCCAU U UUUGUCCA	175	UGGACAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGCCAC	15483
1390	UGGCCAUU U UUGUCCAU	176	AUGGACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUGGCCA	15484
1391	GGCCAUUU U UGUCCAUG	177	CAUGGACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAUGGCC	15485
1392	GCCAUUUU U GUCCAUGG	178	CCAUGGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAAUGGC	15486
1395	AUUUUUGU C CAUGGACC	179	GGUCCAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAAUAU	15487
1408	GACCAACU A CUGUGGAG	180	CUCCACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUGGUC	15488
1418	UGUGGAGU C GCACGGAA	181	UUCGUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCCACA	15489
1430	CGGAACU A CUCCACAC	182	GUGUGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUUCCG	15490
1433	AAACUACU C CACACAGG	183	CCUGUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUAGUUU	15491
1443	ACACAGGU U GGAGCCAC	184	GUGGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUGUGU	15492
1453	GAGCCACU C AGGCAGGG	185	CCUGCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGGCUC	15493

Table III

1466	AGGGAGAU U CAGCAUCA	186	UGAUGCUG CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCCU	15494
1467	GGGAGAUU C AGCAUCAC	187	GUGAUGCU CUGAUGAG	GCCGUUAGGC	CGAA AAUCUCCC	15495
1473	UUCAGCAU C ACUCCUGC	188	GCAGGAGU CUGAUGAG	GCCGUUAGGC	CGAA AUGCUGAA	15496
1477	GCAUCACU C CUGCGGCG	189	CGCGCGAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUGC	15497
1489	CGGCGCCU U CAUACACA	190	UGUGUAUG CUGAUGAG	GCCGUUAGGC	CGAA AGGCGCCG	15498
1490	GGCGCCUU C AUACACAC	191	GUGUGUAU CUGAUGAG	GCCGUUAGGC	CGAA AAGGCGCC	15499
1493	GCCUUCAU A CACACUAA	192	UUAGUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGAAGGC	15500
1500	UACACACU A AAGCUUGG	193	CCAAGCUU CUGAUGAG	GCCGUUAGGC	CGAA AGUGUGUA	15501
1506	CUAAAGCU U GGAGAAUA	194	UAUUCUCC CUGAUGAG	GCCGUUAGGC	CGAA AGCUUUAG	15502
1514	UGGAGAAU A UGGAGAGG	195	CCUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA AUUCUCCA	15503
1547	ACCACGGU C AGGGAUUG	196	CAAUCCCU CUGAUGAG	GCCGUUAGGC	CGAA ACCGUGGU	15504
1554	UCAGGGAU U GACACCAA	197	UUGGUGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCUGA	15505
1568	CAUUGCAU A CUACGUGA	198	UCACGUAG CUGAUGAG	GCCGUUAGGC	CGAA AUGCAUUG	15506
1571	UGCAUACU A CGUGAUGA	199	UCAUCACG CUGAUGAG	GCCGUUAGGC	CGAA AGUAUGCA	15507
1584	AUGACUGU U GGAACAAA	200	UUUGUUCU CUGAUGAG	GCCGUUAGGC	CGAA ACAGUCAU	15508
1598	AAAGACGU U CUUGGUCC	201	GGACCAAG CUGAUGAG	GCCGUUAGGC	CGAA ACGUCUUU	15509
1599	AAGACGUU C UUGGUCCA	202	UGGACCAA CUGAUGAG	GCCGUUAGGC	CGAA AACGUCUU	15510
1601	GACGUUCU U GGUCCAUC	203	GAUGGACC CUGAUGAG	GCCGUUAGGC	CGAA AGAACGUC	15511
1605	UUCUUGGU C CAUCGUGA	204	UCACGAUG CUGAUGAG	GCCGUUAGGC	CGAA ACCAAGAA	15512
1609	UGGUCCAU C GUGAGUGG	205	CCACUCAC CUGAUGAG	GCCGUUAGGC	CGAA AUGGACCA	15513
1619	UGAGUGGU U CAUGGACC	206	GGUCCAUG CUGAUGAG	GCCGUUAGGC	CGAA ACCACUCA	15514
1620	GAGUGGUU C AUGGACCU	207	AGGUCCAU CUGAUGAG	GCCGUUAGGC	CGAA AACCACUC	15515
1629	AUGGACCU C AACUCCCC	208	GGGAGGUU CUGAUGAG	GCCGUUAGGC	CGAA AGGUCCAU	15516
1635	CUCAACCU C CCUUGGAG	209	CUCCAAGG CUGAUGAG	GCCGUUAGGC	CGAA AGGUUGAG	15517
1639	ACCUCCCU U GGAGCAGU	210	ACUGCUCC CUGAUGAG	GCCGUUAGGC	CGAA AGGGAGGU	15518
1657	CUGGAAGU A CUGUGUGG	211	CCACACAG CUGAUGAG	GCCGUUAGGC	CGAA ACUUCACG	15519
1682	AGAGACGU U AAUGGAGU	212	ACUCCAUU CUGAUGAG	GCCGUUAGGC	CGAA ACGUCUCU	15520
1683	GAGACGUU A AUGGAGUU	213	AACUCCAU CUGAUGAG	GCCGUUAGGC	CGAA AACGUCUC	15521
1691	AAUGGAGU U UGAGGAAC	214	GUUCCUCA CUGAUGAG	GCCGUUAGGC	CGAA ACUCCAUU	15522
1692	AUGGAGUU U GAGGAACC	215	GGUUCUCC CUGAUGAG	GCCGUUAGGC	CGAA AACUCCAU	15523
1718	GAAGCAGU C UGUGAUAG	216	CUAUCACA CUGAUGAG	GCCGUUAGGC	CGAA ACUGCUUC	15524
1725	UCUGUGAU A GCAUUGGG	217	CCCAAUGC CUGAUGAG	GCCGUUAGGC	CGAA AUCACAGA	15525
1730	GAUAGCAU U GGGUCAC	218	GUGAGCCC CUGAUGAG	GCCGUUAGGC	CGAA AUGCUAUC	15526
1736	AUUGGGCU C ACAAGAGG	219	CCUCUUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCCCAAU	15527
1750	AGGGAGCU C UGCAUCAA	220	UUGAUGCA CUGAUGAG	GCCGUUAGGC	CGAA AGCUCCCU	15528
1756	CUCUGCAU C AAGCUUUG	221	CAAAGCUU CUGAUGAG	GCCGUUAGGC	CGAA AUGCAGAG	15529
1762	AUCAAGU U UGGCUGGA	222	UCCAGCCA CUGAUGAG	GCCGUUAGGC	CGAA AGCUUGAU	15530
1763	UCAAGCUU U GGCUGGAG	223	CUCCAGCC CUGAUGAG	GCCGUUAGGC	CGAA AAGCUUGA	15531
1776	GGAGCCAU U CCUGUGGA	224	UCCACAGG CUGAUGAG	GCCGUUAGGC	CGAA AUGGCUCC	15532
1777	GAGCCAUU C CUGUGGAA	225	UUCACAG CUGAUGAG	GCCGUUAGGC	CGAA AATGGCUC	15533
1787	UGUGGAU U UUCAAGCA	226	UGCUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AUUCCACA	15534
1788	GUGGAAU U UCAAGCAA	227	UUGCUUGA CUGAUGAG	GCCGUUAGGC	CGAA AAUUCAC	15535
1789	UGGAAUUU U CAAGCAAC	228	GUUGCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAUUCACA	15536
1790	GGAAUUUU C AAGCAACA	229	UGUUGCUU CUGAUGAG	GCCGUUAGGC	CGAA AAAAUUCC	15537
1803	AACACUGU C AAGUUGAC	230	GUCAACUU CUGAUGAG	GCCGUUAGGC	CGAA ACAGUGUU	15538
1808	UGUCAAGU U GACGUCGG	231	CCGACGUC CUGAUGAG	GCCGUUAGGC	CGAA ACTUGACA	15539
1814	GUUGACGU C GGGUCAUU	232	AAUGACCC CUGAUGAG	GCCGUUAGGC	CGAA ACGUCAAC	15540
1819	CGUCGGGU C AUUUGAAG	233	CUUCAAAU CUGAUGAG	GCCGUUAGGC	CGAA ACCCGACG	15541
1822	CGGGUCAU U UGAAGUGU	234	ACACUUCA CUGAUGAG	GCCGUUAGGC	CGAA AUGACCCG	15542
1823	GGGUCAUU U GAAGUGUA	235	UACACUUC CUGAUGAG	GCCGUUAGGC	CGAA AAUGACCC	15543
1831	UGAAGUGU A GAGUGAAG	236	CUUCACUC CUGAUGAG	GCCGUUAGGC	CGAA ACACUUCA	15544
1850	GGAAAAU U GCAGUUGA	237	UCAACUGC CUGAUGAG	GCCGUUAGGC	CGAA AUUUUUCC	15545
1856	AUUGCAGU U GAAGGGAA	238	UUCUUUUC CUGAUGAG	GCCGUUAGGC	CGAA ACUGCAAU	15546
1871	AACAACCU A UGGCGUCU	239	AGACGCCA CUGAUGAG	GCCGUUAGGC	CGAA AGGUUGUU	15547
1878	UAUGGCGU C UGUUCAA	240	UUUGAACA CUGAUGAG	GCCGUUAGGC	CGAA ACGCCAU	15548
1882	GCGUCUGU U CAAAGGCU	241	AGCCUUUG CUGAUGAG	GCCGUUAGGC	CGAA ACAGACGC	15549
1883	CGUCUGUU C AAAGGCUU	242	AAGCCUUU CUGAUGAG	GCCGUUAGGC	CGAA AACAGACG	15550
1891	CAAAGGCU U UCAAGUUU	243	AAACUUGA CUGAUGAG	GCCGUUAGGC	CGAA AGCCUUUG	15551
1892	AAAGGCUU U CAAGUUUC	244	GAAACUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGCCUUU	15552
1893	AAGGCUUU C AAGUUUCU	245	AGAAACUU CUGAUGAG	GCCGUUAGGC	CGAA AAAGCCUU	15553
1898	UUUCAAGU U UCUUGGGA	246	UCCCAAGA CUGAUGAG	GCCGUUAGGC	CGAA ACUUGAAA	15554
1899	UUCAAGUU U CUUGGGAC	247	GUCCCAAG CUGAUGAG	GCCGUUAGGC	CGAA AACUUGAA	15555
1900	UCAAGUUU C UUGGGACU	248	AGUCCCAA CUGAUGAG	GCCGUUAGGC	CGAA AAACUUGA	15556

Table III

1902	AAGUUUCU U GGGACUCC	249	GGAGUCCC CUGAUGAG	GCCGUUAGGC	CGAA AGAAACUU	15557
1909	UUGGGACU C CCGCAGAC	250	GUCUGCGG CUGAUGAG	GCCGUUAGGC	CGAA AGUCCCAA	15558
1924	ACACAGGU C ACGGCACU	251	AGUGCCGU CUGAUGAG	GCCGUUAGGC	CGAA ACCUGUGU	15559
1940	UGUGGUGU U GGAUUGC	252	GCAAUUC CUGAUGAG	GCCGUUAGGC	CGAA ACACCACA	15560
1946	GUUGGAU U GCAGUACA	253	UGUACUGC CUGAUGAG	GCCGUUAGGC	CGAA AUUCCAAC	15561
1952	AUUGCAGU A CACUGGCA	254	UGCCAGUG CUGAUGAG	GCCGUUAGGC	CGAA ACUGCAAU	15562
1972	AUGGACCU U GCAAAGUU	255	AACUUUGC CUGAUGAG	GCCGUUAGGC	CGAA AGGUCCAU	15563
1980	UGCAAAGU U CCUAUCUC	256	GAGAUAGG CUGAUGAG	GCCGUUAGGC	CGAA ACUUUGCA	15564
1981	GCAAAGUU C CUAUCUCG	257	CGAGAUAG CUGAUGAG	GCCGUUAGGC	CGAA AACUUUGC	15565
1984	AAGUUCU A UCUCGUCA	258	UGACGAGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAACUU	15566
1986	GUUCCUUAU C UCUCAGU	259	ACUGACGA CUGAUGAG	GCCGUUAGGC	CGAA AUAGGAAC	15567
1988	UCCUAUCU C GUCAGUGG	260	CCACUGAC CUGAUGAG	GCCGUUAGGC	CGAA AGAUAGGA	15568
1991	UAUCUCGU C AGUGGCUU	261	AAGCCACU CUGAUGAG	GCCGUUAGGC	CGAA ACGAGAUU	15569
1999	CAGUGGCU U CAUUGAAC	262	GUUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA AGCCACUG	15570
2000	AGUGGCUU C AUUGAACG	263	CGUUCUUAU CUGAUGAG	GCCGUUAGGC	CGAA AAGCCACU	15571
2003	GGCUUCAU U GAACGACC	264	GGUCGUUC CUGAUGAG	GCCGUUAGGC	CGAA AUGAAGCC	15572
2013	AACGACCU A ACGCCAGU	265	ACUGGCGU CUGAUGAG	GCCGUUAGGC	CGAA AGGUCCUU	15573
2030	GGGCAGAU U GGUACACU	266	CAGUGACC CUGAUGAG	GCCGUUAGGC	CGAA AUCUGCCC	15574
2034	AGAUUGGU C ACUGUCAA	267	UUGACAGU CUGAUGAG	GCCGUUAGGC	CGAA ACCAAUCU	15575
2040	GUACACGU C AACCCUUU	268	AAAGGGUU CUGAUGAG	GCCGUUAGGC	CGAA ACAGUGAC	15576
2047	UCAACCUU U UGUUUUCA	269	UGAAACAA CUGAUGAG	GCCGUUAGGC	CGAA AGGGUUGA	15577
2048	CAACCCUU U UGUUUCAG	270	CUGAAACA CUGAUGAG	GCCGUUAGGC	CGAA AAGGGUUG	15578
2049	AACCCUUU U GUUUCAGU	271	ACUGAAAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGGGUU	15579
2052	CCUUUUGU U UCAGUGGC	272	GCCACUGA CUGAUGAG	GCCGUUAGGC	CGAA ACAAAAGG	15580
2053	CUUUUGUU U CAGUGGCC	273	GGCCACUG CUGAUGAG	GCCGUUAGGC	CGAA AACAAAAG	15581
2054	UUUUGUUU C AGUGGCCA	274	UGGCCACU CUGAUGAG	GCCGUUAGGC	CGAA AAACAAA	15582
2074	CCAACGCU A AGGUCCUG	275	CAGGACCU CUGAUGAG	GCCGUUAGGC	CGAA AGCGUUGG	15583
2079	GCUAAGGU C CUGAUUGA	276	UCAAUUCAG CUGAUGAG	GCCGUUAGGC	CGAA ACCUUAAGC	15584
2085	GUCCUGAU U GAAUUGGA	277	UCCAAUUC CUGAUGAG	GCCGUUAGGC	CGAA AUCAGGAC	15585
2090	GAUUGAAU U GGAACCA	278	GUGGUUCC CUGAUGAG	GCCGUUAGGC	CGAA AUUCAUUC	15586
2102	ACCACCUU U UGGAGACU	279	AGUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA AGGGUGGU	15587
2103	CCACCCUU U GGAGACUC	280	GAGUCUCC CUGAUGAG	GCCGUUAGGC	CGAA AAGGGUGG	15588
2111	UGGAGACU C AUACAUAG	281	CUAUGUUAU CUGAUGAG	GCCGUUAGGC	CGAA AGUCUCCA	15589
2114	AGACUCAU A CAUAGUGG	282	CCACUAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGAGUCU	15590
2118	UCAUACAU A GUGGUGGG	283	CCCACCAC CUGAUGAG	GCCGUUAGGC	CGAA AUGUAUGA	15591
2145	CAACAGAU C AAUCACCA	284	UGGUGAUU CUGAUGAG	GCCGUUAGGC	CGAA AUCUGUUG	15592
2149	AGAUCAAU C ACCAUUGG	285	CCAAUGGU CUGAUGAG	GCCGUUAGGC	CGAA AUUGAUUCU	15593
2155	AUCACCAU U GGCACAAG	286	CUUGUGCC CUGAUGAG	GCCGUUAGGC	CGAA AUGGUGAU	15594
2165	GCACAAGU C UGGAAGCA	287	GAGUCCCA CUGAUGAG	GCCGUUAGGC	CGAA ACUUGUGC	15595
2178	AGCAGCAU U GGCAAAGC	288	GCUUUGCC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCGCU	15596
2189	CAAAGCCU U UACAACCA	289	UGGUUGUA CUGAUGAG	GCCGUUAGGC	CGAA AGGCUUUG	15597
2190	AAAGCCUU U ACAACCAC	290	GUGGUUGU CUGAUGAG	GCCGUUAGGC	CGAA AAGGCUUU	15598
2191	AAGCCUUU A CAACCACC	291	GGUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA AAAGGCUU	15599
2202	ACCACCUU C AAAGGAGC	292	GCUCUUUU CUGAUGAG	GCCGUUAGGC	CGAA AGGGUGGU	15600
2220	CAGAGACU A GCCGCUU	293	AGAGCGGC CUGAUGAG	GCCGUUAGGC	CGAA AGUCUCUG	15601
2227	UAGCCGUU C UAGGAGAC	294	GUCUCCUA CUGAUGAG	GCCGUUAGGC	CGAA AGCGGCUA	15602
2229	GCCGCUU A GGAGACAC	295	GUGUCUCC CUGAUGAG	GCCGUUAGGC	CGAA AGAGCGGC	15603
2242	ACACAGCU U GGGACUUU	296	AAAGUCCC CUGAUGAG	GCCGUUAGGC	CGAA AGCUGUGU	15604
2249	UUGGGACU U UGGAUCAG	297	CUGAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AGUCCCAA	15605
2250	UGGGACUU U GGAUCAGU	298	ACUGAUCC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCCCA	15606
2255	CUUUGGAU C AGUUGGAG	299	CUCCAACU CUGAUGAG	GCCGUUAGGC	CGAA AUCCAAG	15607
2259	GGAUCAGU U GGAGGGGU	300	ACCCUCC CUGAUGAG	GCCGUUAGGC	CGAA ACUGAUCC	15608
2270	AGGGGUGU U CACCUCAG	301	CUGAGGUG CUGAUGAG	GCCGUUAGGC	CGAA ACACCCCU	15609
2271	GGGGUGUU C ACCUCAGU	302	ACUGAGGU CUGAUGAG	GCCGUUAGGC	CGAA AACACCCC	15610
2276	GUUACCU C AGUUGGGA	303	UCCCAACU CUGAUGAG	GCCGUUAGGC	CGAA AGGUGAAC	15611
2280	ACCUCAGU U GGGAAAGC	304	GCCUCC CUGAUGAG	GCCGUUAGGC	CGAA ACUGAGGU	15612
2292	AAGGCGU C CAUCAAGU	305	ACUUGAUG CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCUU	15613
2296	CUGUCCAU C AAGUGUUC	306	GAACACUU CUGAUGAG	GCCGUUAGGC	CGAA AUGGACAG	15614
2303	UCAAGUGU U CGGAGGAG	307	CUCCUCCG CUGAUGAG	GCCGUUAGGC	CGAA ACACUUGA	15615
2304	CAAGUGUU C GGAGGAGC	308	GCUCUCC CUGAUGAG	GCCGUUAGGC	CGAA AACACUUG	15616
2315	AGGAGCAU U CCGUCAC	309	GUGAGCG CUGAUGAG	GCCGUUAGGC	CGAA AUGCUCCU	15617
2316	GGAGCAU C CGCUCACU	310	AGUGAGCG CUGAUGAG	GCCGUUAGGC	CGAA AAUGCUCC	15618
2321	AUUCCGCU C ACUGUUCG	311	CGAACAGU CUGAUGAG	GCCGUUAGGC	CGAA AGCGGAU	15619

Table III

2327	CUCACUGU U CGGAGGCA	312	UGCCUCCG CUGAUGAG	GCCGUUAGGC	CGAA ACAGUGAG	15620
2328	UCACUGUU C GGAGGCAU	313	AUGCCUCC CUGAUGAG	GCCGUUAGGC	CGAA AACAGUGA	15621
2339	AGGCAUGU C CUGGAUAA	314	UUAUCCAG CUGAUGAG	GCCGUUAGGC	CGAA ACAUGCCU	15622
2346	UCCUGGAU A ACGCAAGG	315	CCUUGCGU CUGAUGAG	GCCGUUAGGC	CGAA AUCCAGGA	15623
2357	GCAAGGAU U GCUGGGGG	316	CCCCAGC CUGAUGAG	GCCGUUAGGC	CGAA AUCCUUGC	15624
2368	UGGGGGCU C UCCUGUUG	317	CAACAGGA CUGAUGAG	GCCGUUAGGC	CGAA AGCCCCCA	15625
2370	GGGGCUCU C CUGUUGUG	318	CACAACAG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCCCC	15626
2375	UCUCCUGU U GUGGAUGG	319	CCAUCCAC CUGAUGAG	GCCGUUAGGC	CGAA ACAGGAGA	15627
2388	AUGGGCAU C AAUGCUCG	320	CGAGCAU CUGAUGAG	GCCGUUAGGC	CGAA AUGCCCAU	15628
2395	UCAUUGCU C GUGAUAGG	321	CCUAUCAC CUGAUGAG	GCCGUUAGGC	CGAA AGCAUTUGA	15629
2401	CUCGUGAU A GGUCCAUA	322	UAUGGACC CUGAUGAG	GCCGUUAGGC	CGAA AUCACGAG	15630
2405	UGAUAGGU C CAUAGCUC	323	GAGCUAUG CUGAUGAG	GCCGUUAGGC	CGAA ACCUAUCA	15631
2409	AGGUCCAU A GCUCUCAC	324	GUGAGAGC CUGAUGAG	GCCGUUAGGC	CGAA AUGGACCU	15632
2413	CCAUAGCU C UCACGUUU	325	AAACGUGA CUGAUGAG	GCCGUUAGGC	CGAA AGCUAUGG	15633
2415	AUAGCUCU C ACGUUTUC	326	AGAAACGU CUGAUGAG	GCCGUUAGGC	CGAA AGAGCUAU	15634
2420	UCUCACGU U UCUCGCAG	327	CUGCGAGA CUGAUGAG	GCCGUUAGGC	CGAA ACGUGAGA	15635
2421	CUCACGUU C CUCGCAGU	328	ACUGCGAG CUGAUGAG	GCCGUUAGGC	CGAA AACGUGAG	15636
2422	UCACGUUU C UCGCAGUU	329	AACUGCGA CUGAUGAG	GCCGUUAGGC	CGAA AAACGUGA	15637
2424	ACGUUUCU C GCAGUUGG	330	CCAACUGC CUGAUGAG	GCCGUUAGGC	CGAA AGAAACGU	15638
2430	CUCGCAGU U GGAGGAGU	331	ACUCCUCC CUGAUGAG	GCCGUUAGGC	CGAA ACUGCGAG	15639
2439	GGAGGAGU U CUGCUCUU	332	AAGAGCAG CUGAUGAG	GCCGUUAGGC	CGAA ACUCCUCC	15640
2440	GAGGAGUU C UGCUCUUC	333	GAAGAGCA CUGAUGAG	GCCGUUAGGC	CGAA AACUCCUC	15641
2445	GUUCUGCU C UUCUCUCU	334	GAGAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AGCAGAAC	15642
2447	UCUGCUCU U CCUCUCCG	335	CGGAGAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCAGA	15643
2448	CUGCUCUU C CUCUCCGU	336	ACGGAGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGAGCAG	15644
2451	CUCUCCU C UCCGUGAA	337	UUCACGGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAAGAG	15645
2453	CUUCCUCU C CGUGAACG	338	CGUUCACG CUGAUGAG	GCCGUUAGGC	CGAA AGAGGAAG	15646
2487	UGUGCCAU A GACAUCAG	339	CUGAUGUC CUGAUGAG	GCCGUUAGGC	CGAA AUGGCACA	15647
2493	AUAGACAU C AGCCGGCA	340	UGCCGGCU CUGAUGAG	GCCGUUAGGC	CGAA AUGUCUAU	15648
2528	UGGAGUGU U CAUACACA	341	UGUGUAUG CUGAUGAG	GCCGUUAGGC	CGAA ACACUCCA	15649
2529	GGAGUGUU C AUACACAA	342	UUGUGUAU CUGAUGAG	GCCGUUAGGC	CGAA AACACUCC	15650
2532	GUGUUCAU A CACAUGA	343	UGAUUGU CUGAUGAG	GCCGUUAGGC	CGAA AUAACAC	15651
2551	UGGAGGCU U GGAUGGAC	344	GUCCAUCC CUGAUGAG	GCCGUUAGGC	CGAA AGCCUCCA	15652
2564	GGACCGGU A CAAGUAUU	345	AAUACUUG CUGAUGAG	GCCGUUAGGC	CGAA ACCGGUCC	15653
2570	GUACAAGU A UUAACCUG	346	CAGGGUAA CUGAUGAG	GCCGUUAGGC	CGAA ACUUGUAC	15654
2572	ACAAGUAU U ACCCUGAA	347	UUCAGGGU CUGAUGAG	GCCGUUAGGC	CGAA AUACUUGU	15655
2573	CAAGUAUU A CCCUGAAA	348	UUUCAGGG CUGAUGAG	GCCGUUAGGC	CGAA AAUACUUG	15656
2595	CAAGGCCU A GCCAAGAU	349	AUCUUGGC CUGAUGAG	GCCGUUAGGC	CGAA AGGCCUUG	15657
2604	GCCAAGAU A AUUCAGAA	350	UUCUGAAU CUGAUGAG	GCCGUUAGGC	CGAA AUCUUGGC	15658
2607	AAGAUCAU U CAGAAAGC	351	GUUUUCUG CUGAUGAG	GCCGUUAGGC	CGAA AUGAUCUU	15659
2608	AGAUCAUU C AGAAAGCU	352	AGCUUUCU CUGAUGAG	GCCGUUAGGC	CGAA AAUGAUCU	15660
2617	AGAAAGCU C AUAAGGAA	353	UUCUUUAU CUGAUGAG	GCCGUUAGGC	CGAA AGCUUUCU	15661
2620	AAGCUCAU A AGGAAGGA	354	UCCUUCU CUGAUGAG	GCCGUUAGGC	CGAA AUGAGCUU	15662
2638	UGUGCGGU C UACGAUCA	355	UGAUCGUA CUGAUGAG	GCCGUUAGGC	CGAA ACCGCACA	15663
2640	UGCUGUCU A CGAUCAGU	356	ACUGAUCG CUGAUGAG	GCCGUUAGGC	CGAA AGACCGCA	15664
2645	UCUACGAU C AGUUUCCA	357	UGGAAACU CUGAUGAG	GCCGUUAGGC	CGAA AUCGUAGA	15665
2649	CGAUCAGU U UCCAGACU	358	AGUCUGGA CUGAUGAG	GCCGUUAGGC	CGAA ACUGAUCG	15666
2650	GAUCAGUU U CCAGACUG	359	CAGUCUGG CUGAUGAG	GCCGUUAGGC	CGAA AACUGAUC	15667
2651	AUCAGUUU C CAGACUGG	360	CCAGUCUG CUGAUGAG	GCCGUUAGGC	CGAA AAACUGAU	15668
2665	UGGAGCAU C AAAUGUGG	361	CCACAUUU CUGAUGAG	GCCGUUAGGC	CGAA AUGCUCCA	15669
2701	UGAACACU C UUUUGAAG	362	CUUCAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGUUA	15670
2703	AACACUCU U UUGAAGGA	363	UCCUUCAA CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGUU	15671
2704	ACACUCUU U UGAAGGAG	364	CUCCUUA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGUGU	15672
2705	CACUCUUU U GAAGGAGA	365	UCUCCUUC CUGAUGAG	GCCGUUAGGC	CGAA AAAGAGUG	15673
2727	GUGGACCU U AGUGUCGU	366	ACGACACU CUGAUGAG	GCCGUUAGGC	CGAA AGGUCCAC	15674
2728	UGGACCUU A GUGUCGUG	367	CACGACAC CUGAUGAG	GCCGUUAGGC	CGAA AAGGUCCA	15675
2733	CUUAGUGU C GUGGUUGA	368	UCAACCAC CUGAUGAG	GCCGUUAGGC	CGAA ACACUAAG	15676
2739	GUCGUGGU U GAGAAACA	369	UGUUUCUC CUGAUGAG	GCCGUUAGGC	CGAA ACCACGAC	15677
2759	GGGAUUGU A CAAGUCAG	370	CUGACUUG CUGAUGAG	GCCGUUAGGC	CGAA ACAUUCUCC	15678
2765	GUACAAGU C AGCACCUA	371	UAGGUGCU CUGAUGAG	GCCGUUAGGC	CGAA ACUUGUAC	15679
2773	CAGCACCU A AACGCCUC	372	GAGGCGUU CUGAUGAG	GCCGUUAGGC	CGAA AGGUGCUG	15680
2781	AAACGCCU C ACCGCCAC	373	GUGGCGGU CUGAUGAG	GCCGUUAGGC	CGAA AGGCGUUU	15681
2801	GGAAAAU U GGAAAUUG	374	CAAUUCC CUGAUGAG	GCCGUUAGGC	CGAA AUUUUCC	15682

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2808	UUGGAAAU U GGCUGGAA	375	UUCCAGCC CUGAUGAG	GCCGUUAGGC	CGAA AUUCCAA	15683
2833	GAAAGAGU A UUUUAUUU	376	AAAUAAA CUGAUGAG	GCCGUUAGGC	CGAA ACUCUUUC	15684
2835	AAGAGUAU U UUAUUUGC	377	GCAAUAUA CUGAUGAG	GCCGUUAGGC	CGAA AUACUCUU	15685
2836	AGAGUAUU U UAUUUGCA	378	UGCAAUA CUGAUGAG	GCCGUUAGGC	CGAA AAUACUCU	15686
2837	GAGUAUUU U AUUUGCAC	379	GUGCAAU CUGAUGAG	GCCGUUAGGC	CGAA AAAUACUC	15687
2838	AGUAUUUU A UUUGCACC	380	GGUGCAA CUGAUGAG	GCCGUUAGGC	CGAA AAAAUACU	15688
2840	UAUUUUAU U UGCACCAG	381	UCUGGUGC CUGAUGAG	GCCGUUAGGC	CGAA AUAAAAUA	15689
2841	AUUUAUUU U GCACCAGA	382	UCUGGUGC CUGAUGAG	GCCGUUAGGC	CGAA AAUAAAAU	15690
2853	CCAGAACU C GCCAACAA	383	UUGUUGGC CUGAUGAG	GCCGUUAGGC	CGAA AGUUCUGG	15691
2867	CAACACCU U UGUGGUUG	384	CAACCACA CUGAUGAG	GCCGUUAGGC	CGAA AGGUGUUG	15692
2868	AACACCUU U GUGGUUGA	385	UCAACCAC CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGUU	15693
2874	UUUGUGGU U GAUGGUCC	386	GGACCAUC CUGAUGAG	GCCGUUAGGC	CGAA ACCACAAA	15694
2881	UGAUGGU C CGGAGACC	387	GGUCUCCG CUGAUGAG	GCCGUUAGGC	CGAA ACCAUCAA	15695
2899	AGGAAUGU C CGACUCAG	388	CUGAGUCG CUGAUGAG	GCCGUUAGGC	CGAA ACAUUCU	15696
2905	GUCCGACU C AGAAUCGC	389	GCGAUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGUCGGAG	15697
2911	CUCAGAAU C GCGCUUGG	390	CCAAGCGC CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGAG	15698
2917	AUCGCGCU U GGAAUAGC	391	GCUAUUC CUGAUGAG	GCCGUUAGGC	CGAA AGCGCGAU	15699
2923	CUUGGAAU A GCUUAGAA	392	UUCUAAGC CUGAUGAG	GCCGUUAGGC	CGAA AUUCCAAG	15700
2927	GAAUAGCU U AGAAGUGG	393	CCACUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGCUAUUC	15701
2928	AAUAGCUU A GAAGUGGA	394	UCCACUUC CUGAUGAG	GCCGUUAGGC	CGAA AAGCUAUU	15702
2941	UGGAGGAU U UUGGAUUU	395	AAAUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AUCCUCCA	15703
2942	GGAGGAUU U UGGAUUUG	396	CAAAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUCCUCC	15704
2943	GAGGAUUU U GGAUUUGG	397	CCAAUCC CUGAUGAG	GCCGUUAGGC	CGAA AAUCCUC	15705
2948	UUUUGGAU U UGGUCUCA	398	UGAGACCA CUGAUGAG	GCCGUUAGGC	CGAA AUCCAAAA	15706
2949	UUUGGAUU U GGUCUCAC	399	GUGAGACC CUGAUGAG	GCCGUUAGGC	CGAA AAUCCAAA	15707
2953	GAUUUGGU C UCACCAGC	400	GCUGGUGA CUGAUGAG	GCCGUUAGGC	CGAA ACCAAAU	15708
2955	UUUGGUCU C ACCAGCAC	401	GUGCUGGU CUGAUGAG	GCCGUUAGGC	CGAA AGACCAA	15709
2965	CCAGCACU C GGAUGUUC	402	GAACAUC CUGAUGAG	GCCGUUAGGC	CGAA AGUGCUGG	15710
2972	UCGGAUGU U CCUGAAGG	403	CCUUCAGG CUGAUGAG	GCCGUUAGGC	CGAA ACAUCCGA	15711
2973	CGGAUGUU C CUGAAGGU	404	ACCUUCAG CUGAUGAG	GCCGUUAGGC	CGAA AACAUCCG	15712
2982	CUGAAGGU C AGAGAGAG	405	CUCUCUCU CUGAUGAG	GCCGUUAGGC	CGAA ACCUUCAG	15713
3011	AUGUGACU C GAAGAUCA	406	UGAUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGUCACAU	15714
3018	UCGAAGAU C AUUGGAAC	407	GUUCCAUA CUGAUGAG	GCCGUUAGGC	CGAA AUCUUCGA	15715
3021	AAGAUCAU U GGAACGGC	408	GCCGUUCC CUGAUGAG	GCCGUUAGGC	CGAA AUGAUCUU	15716
3033	ACGGCUGU C AAGAACAA	409	UUGUUCUU CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCGU	15717
3044	GAACAACU U GGCGAUCC	410	GAUUCGCC CUGAUGAG	GCCGUUAGGC	CGAA AGUUGUUC	15718
3051	UUGGCGAU C CACAGUGA	411	UCACUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUCGCCAA	15719
3065	UGACCUGU C CUAUUGGA	412	UCCAAUAG CUGAUGAG	GCCGUUAGGC	CGAA ACAGGUCA	15720
3068	CCUGUCCU A UUGGAUUG	413	CAAUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AGGACAGG	15721
3070	UGUCCUAU U GGAUUGAA	414	UAUCAAUC CUGAUGAG	GCCGUUAGGC	CGAA AUAGGACA	15722
3075	UAUUGGAU U GAAAGCAG	415	CUGCUUUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCAUA	15723
3087	AGCAGGCU C AAUGAUAC	416	GUAUCAUU CUGAUGAG	GCCGUUAGGC	CGAA AGCCUGCU	15724
3094	UCAUGAU A CGUGGAAG	417	CUUCCACG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGA	15725
3105	UGGAAGCU U GAAAGGGC	418	GCCCUUUC CUGAUGAG	GCCGUUAGGC	CGAA AGCUUCCA	15726
3117	AGGGCAGU U CUGGGUGA	419	UCACCCAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGCCU	15727
3118	GGGCAGU U UGGGUGAA	420	UUCACCCA CUGAUGAG	GCCGUUAGGC	CGAA AACUGCCC	15728
3129	GGUGAAGU C AAAUCAUG	421	CAUGAUUU CUGAUGAG	GCCGUUAGGC	CGAA ACUUCACC	15729
3134	AGUCAAAU C AUGUACGU	422	ACGUACAU CUGAUGAG	GCCGUUAGGC	CGAA AUUUGACU	15730
3139	AAUCAUGU A CGUGGCCU	423	AGGCCACG CUGAUGAG	GCCGUUAGGC	CGAA ACAUGAUU	15731
3157	AGACGCAU A CCUGUGG	424	CCACAAGG CUGAUGAG	GCCGUUAGGC	CGAA AUGCGUCU	15732
3161	GCAUACCU U GUGGGGCG	425	CGCCCCAC CUGAUGAG	GCCGUUAGGC	CGAA AGGUAUGC	15733
3177	GAUGGAU C CUUGAGAG	426	CUCUCAAG CUGAUGAG	GCCGUUAGGC	CGAA AUUCCAUC	15734
3180	GGAUCCU U GAGAGUGA	427	UCACUCUC CUGAUGAG	GCCGUUAGGC	CGAA AGGAUUC	15735
3191	GAGUGACU U GAUAUAC	428	GUAUUAUC CUGAUGAG	GCCGUUAGGC	CGAA AGUCACUC	15736
3195	GACUUGAU A AUACCAGU	429	ACUGGUAU CUGAUGAG	GCCGUUAGGC	CGAA AUCAAGUC	15737
3198	UGAUAUU A CCAGUCAC	430	GUGACUGG CUGAUGAG	GCCGUUAGGC	CGAA AUUAUCAA	15738
3204	AUACCAGU C ACACUGGC	431	GCCAGUGU CUGAUGAG	GCCGUUAGGC	CGAA ACUGGUUU	15739
3229	GAAGCAAU C ACAUCCGG	432	CCGAUUGU CUGAUGAG	GCCGUUAGGC	CGAA AUUGCUUC	15740
3235	AUCACAAU C GGAGACCU	433	AGGUCUCC CUGAUGAG	GCCGUUAGGC	CGAA AUUGUGAU	15741
3248	ACCUGGGU A CAAGACAC	434	GUGUCUUG CUGAUGAG	GCCGUUAGGC	CGAA ACCCAGGU	15742
3288	GGCCGGGU A GAGAUUGA	435	UCAAUUC CUGAUGAG	GCCGUUAGGC	CGAA ACCCGGCC	15743
3294	GUAGAGAU U GACUUCGA	436	UCGAAGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCUCUAC	15744
3299	GAUUGACU U CGAUUACU	437	AGUAUUCG CUGAUGAG	GCCGUUAGGC	CGAA AGUCAUUC	15745

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3300	AUUGACU C GAUACUG	438	CAGUAAUC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAAU	15746
3304	ACUUCGAU U ACUGCCCA	439	UGGGCAGU CUGAUGAG	GCCGUUAGGC	CGAA AUCGAAGU	15747
3305	CUUCGAU A CUGCCAG	440	CUGGGCAG CUGAUGAG	GCCGUUAGGC	CGAA AAUCGAAG	15748
3319	CAGGAACU A CGGUCACC	441	GGUGACCG CUGAUGAG	GCCGUUAGGC	CGAA AGUUCUG	15749
3324	ACUACGGU C ACCCUGAG	442	CUCAGGGU CUGAUGAG	GCCGUUAGGC	CGAA ACCGUAGU	15750
3364	CUGCCACTU C GCACCACC	443	GGUGGUGC CUGAUGAG	GCCGUUAGGC	CGAA AGUGGCAG	15751
3389	CGGAAAGU U GAUACAG	444	CUGUUAUC CUGAUGAG	GCCGUUAGGC	CGAA ACUUCUG	15752
3393	AAGUUGAU A ACAGAUUG	445	CAUUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AUCAACU	15753
3400	UAACAGAU U GGUGCUGC	446	GCAGCACC CUGAUGAG	GCCGUUAGGC	CGAA AUCUGUA	15754
3422	CUGCACCU U ACCACCAC	447	GUGGUGGU CUGAUGAG	GCCGUUAGGC	CGAA AGGUGCAG	15755
3423	UGCACCUU A CCACCACU	448	AGUGGUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGCA	15756
3437	ACUGCGCU A CCAAACUG	449	CAGUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGCGCAGU	15757
3457	GCGGCUGU U GGUAUGGU	450	ACCAUACC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCGC	15758
3461	CUGUUGGU A UGGUAUGG	451	CCAUAACA CUGAUGAG	GCCGUUAGGC	CGAA ACCAACAG	15759
3466	GGUAUGGU A UGGAGAUC	452	GAUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACCAUACC	15760
3474	AUGGAGAU C AGACCACA	453	UGUGGUCU CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCAU	15761
3504	AAGACCCU C GUGCAGUC	454	GACUGCAC CUGAUGAG	GCCGUUAGGC	CGAA AGGGUCU	15762
3512	CGUGCAGU C ACAAGUGA	455	UCACUUGU CUGAUGAG	GCCGUUAGGC	CGAA ACUGCACG	15763
3526	UGAAUGCU U AUAUUGCU	456	AGCAUUAU CUGAUGAG	GCCGUUAGGC	CGAA AGCAUUA	15764
3527	GAAUGCUU A UAAUGCUG	457	CAGCAUUA CUGAUGAG	GCCGUUAGGC	CGAA AAGCAUUC	15765
3529	AUGCUIAU A AUGCUGAU	458	AUCAGCAU CUGAUGAG	GCCGUUAGGC	CGAA AUAAGCAU	15766
3538	AUGCUGAU A UGAUUGAC	459	GUCAAUCA CUGAUGAG	GCCGUUAGGC	CGAA AUCAGCAU	15767
3543	GAUAUGAU U GACCCUUU	460	AAAGGGUC CUGAUGAG	GCCGUUAGGC	CGAA AUGCAUUC	15768
3550	UUGACCCU U UUCAGUUG	461	CAACUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGGGUCA	15769
3551	UGACCCUU U UCAGUUGG	462	CCAACUGA CUGAUGAG	GCCGUUAGGC	CGAA AAGGGUC	15770
3552	GACCCUUU U CAGUUGGG	463	CCCAACUG CUGAUGAG	GCCGUUAGGC	CGAA AAAGGGUC	15771
3553	ACCCUUUU C AGUUGGGC	464	GCCCAACU CUGAUGAG	GCCGUUAGGC	CGAA AAAAGGGU	15772
3557	UUUUCAGU U GGGCCUUC	465	GAAGGCCC CUGAUGAG	GCCGUUAGGC	CGAA ACUGAAAA	15773
3564	UUGGGCCU U CUGGUCGU	466	ACGACCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGCCCAA	15774
3565	UGGGCCUU C UGGUCGUG	467	CACGACCA CUGAUGAG	GCCGUUAGGC	CGAA AAGGCCCA	15775
3570	CUUCUGU C GUGUUCUU	468	AAGAACAC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGAAG	15776
3575	GGUCGUGU U CUUGGCCA	469	UGGCCAAG CUGAUGAG	GCCGUUAGGC	CGAA ACACGACC	15777
3576	GUCGUGUU C UUGGCCAC	470	GUGGCCAA CUGAUGAG	GCCGUUAGGC	CGAA AACACGAC	15778
3578	CGUGUUCU U GGCCACCC	471	GGGUGGCC CUGAUGAG	GCCGUUAGGC	CGAA AGAACACG	15779
3594	CAGGAGGU C CUUCGCAA	472	UUGCGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACCUCCUG	15780
3597	GAGGUCCU U CGCAAGAG	473	CUCUUGCG CUGAUGAG	GCCGUUAGGC	CGAA AGGACCUC	15781
3598	AGGUCCUU C GCAAGAGG	474	CCUCUUGC CUGAUGAG	GCCGUUAGGC	CGAA AAGGACCU	15782
3621	GCCAAGAU C AGCAUGCC	475	GCGAUGCU CUGAUGAG	GCCGUUAGGC	CGAA AUCUUGGC	15783
3634	UGCCAGCU A UACUGAUU	476	AAUCAGUA CUGAUGAG	GCCGUUAGGC	CGAA AGCUGGCA	15784
3636	CCAGCUAU A CUGAUUGC	477	GCAAUCAG CUGAUGAG	GCCGUUAGGC	CGAA AUAGCUGG	15785
3642	AUACUGAU U GCUCUGCU	478	AGCAGAGC CUGAUGAG	GCCGUUAGGC	CGAA AUCAGUAU	15786
3646	UGAUUGCU C UGCUAGUC	479	GACUAGCA CUGAUGAG	GCCGUUAGGC	CGAA AGCAAUCA	15787
3651	GCUCUGCU A GUCCUGGU	480	ACCAGGAC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGAGC	15788
3654	CUCUAGU C CUGGUGUU	481	AACACCAG CUGAUGAG	GCCGUUAGGC	CGAA ACUAGCAG	15789
3662	CCUGGUGU U UGGGGGCA	482	UGCCCCCA CUGAUGAG	GCCGUUAGGC	CGAA ACACCAGG	15790
3663	CUGGUGUU U GGGGGCAU	483	AUGCCCCC CUGAUGAG	GCCGUUAGGC	CGAA AACACCAG	15791
3672	GGGGGCAU U ACUACAC	484	GUGUAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUGCCCCC	15792
3673	GGGGCAUU A CUUACACU	485	AGUGUAAG CUGAUGAG	GCCGUUAGGC	CGAA AAUGCCCC	15793
3676	GCAUUAU C ACACUGAU	486	AUCAGUGU CUGAUGAG	GCCGUUAGGC	CGAA AGUAAUGC	15794
3677	CAUUAU C CACUGAUG	487	CAUCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUAAUG	15795
3689	UGAUGUGU U ACGCUAUG	488	CAUAGCGU CUGAUGAG	GCCGUUAGGC	CGAA ACACAUA	15796
3690	GAUGUGUU A CGCUAUGU	489	ACAUAGCG CUGAUGAG	GCCGUUAGGC	CGAA AACACAUC	15797
3695	GUUACGCU A UGUCAUCU	490	AGAUGACA CUGAUGAG	GCCGUUAGGC	CGAA AGCGUAAC	15798
3699	CGCUAUGU C AUCUUGGU	491	ACCAAGAU CUGAUGAG	GCCGUUAGGC	CGAA ACUAGCG	15799
3702	UAUGUCAU C UUGGUGGG	492	CCCACCAA CUGAUGAG	GCCGUUAGGC	CGAA AUGACAUA	15800
3704	UGUCAUCU U GGUGGGGG	493	CCCCCACC CUGAUGAG	GCCGUUAGGC	CGAA AGAUGACA	15801
3718	GGGCAGCU U UCGCAGAA	494	UUCUGCGA CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCCC	15802
3719	GGCAGCUU U CGCAGAAU	495	AUUCUGCG CUGAUGAG	GCCGUUAGGC	CGAA AAGCUGCC	15803
3720	GCAGCUUU C GCAGAAUC	496	GAUUCUGC CUGAUGAG	GCCGUUAGGC	CGAA AAAGCUGC	15804
3728	CGCAGAAU C UAAUUCGG	497	CCGAUUA CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGCG	15805
3730	CAGAAUCU A AUUCGGGA	498	UCCCGAAU CUGAUGAG	GCCGUUAGGC	CGAA AGAUUCUG	15806
3733	AAUCUAAU U CGGAGGGA	499	UCCUCCCG CUGAUGAG	GCCGUUAGGC	CGAA AUUAGAU	15807
3734	AUCUAAU C GGGAGGAG	500	CUCCUCCC CUGAUGAG	GCCGUUAGGC	CGAA AAUAGAU	15808

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3750	GACGUGGU A CACUUGGC	501	GCCAAGUG CUGAUGAG	GCCGUUAGGC	CGAA ACCACGUC	15809
3755	GGUACACU U GGCUCUCA	502	UGAGCGCC CUGAUGAG	GCCGUUAGGC	CGAA AGUGUACC	15810
3762	UUGGCGCU C AUGGCGAC	503	GUCGCCAU CUGAUGAG	GCCGUUAGGC	CGAA AGCGCCAA	15811
3773	GGCGACCU U CAAGAUAC	504	GUUUCUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGUCGCC	15812
3774	GCGACCUU C AAGAUACA	505	UGUAUCUU CUGAUGAG	GCCGUUAGGC	CGAA AAGGUCGC	15813
3780	UUCAAGAU A CAACCAGU	506	ACUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA AUCUUGAA	15814
3791	ACCAGUGU U UAUGGUGG	507	CCACCAUA CUGAUGAG	GCCGUUAGGC	CGAA ACACUGGU	15815
3792	CCAGUGUU U AUGGUGGC	508	GCCACCAU CUGAUGAG	GCCGUUAGGC	CGAA AACACUGG	15816
3793	CAGUGUUU A UGGUGGCA	509	UGCCACCA CUGAUGAG	GCCGUUAGGC	CGAA AAACACUG	15817
3803	GGUGGCAU C GUUUCUCA	510	UGAGAAAC CUGAUGAG	GCCGUUAGGC	CGAA AUGCCACC	15818
3806	GGCAUCGU U UCUCAAAG	511	CUUUGAGA CUGAUGAG	GCCGUUAGGC	CGAA ACGAUGCC	15819
3807	GCAUCGUU U CUCAAAGC	512	GCUUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AACGAUGC	15820
3808	CAUCGUUU C UCAAAGCG	513	CGCUUUGA CUGAUGAG	GCCGUUAGGC	CGAA AAACGAUG	15821
3810	UCGUUUCU C AAAGCGAG	514	CUCGCUUU CUGAUGAG	GCCGUUAGGC	CGAA AGAAACGA	15822
3840	GAGAACAU U UUGUUGAU	515	AUCAACAA CUGAUGAG	GCCGUUAGGC	CGAA AUGUUCUC	15823
3841	AGAACAUI U UGUUGAUG	516	CAUCAACA CUGAUGAG	GCCGUUAGGC	CGAA AAUGUUCU	15824
3842	GAACAUIU U GUUGAUGU	517	ACAUCAAC CUGAUGAG	GCCGUUAGGC	CGAA AAUGUUCU	15825
3845	CAUUUGU U GAUGUUGG	518	CCAACAUC CUGAUGAG	GCCGUUAGGC	CGAA ACAAAAUG	15826
3851	GUUGAUGU U GGCUGCUG	519	CAGCCGCC CUGAUGAG	GCCGUUAGGC	CGAA ACAUCAAC	15827
3861	GCGGCGU U UUCUUUCA	520	UGAAAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCGC	15828
3862	CGGCGUUG U UCUUUCAA	521	UUGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AACAGCCG	15829
3863	GGCUGUUU U CUUUCAA	522	UUUGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AAACAGCC	15830
3864	GCUGUUUU C UUUCAAAU	523	AUUUGAAA CUGAUGAG	GCCGUUAGGC	CGAA AAAACAGC	15831
3866	UGUUUUUU U UCAAUUGG	524	CCAUUUUG CUGAUGAG	GCCGUUAGGC	CGAA AGAAACA	15832
3867	UUUUUUUU C AAAUUGGC	525	GCCAUUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAAC	15833
3868	UUUUUUUU C AAAUUGGC	526	AGCCAUUU CUGAUGAG	GCCGUUAGGC	CGAA AAAGAAAA	15834
3877	AAAUUGGU U AUCACGAU	527	AUCGUGAU CUGAUGAG	GCCGUUAGGC	CGAA AGCCAUUU	15835
3878	AAUGGCUU A UCACGAUG	528	CAUCGUGA CUGAUGAG	GCCGUUAGGC	CGAA AAGCCAUU	15836
3880	UGGCUUUA C ACGAUGCC	529	GGCAUCGU CUGAUGAG	GCCGUUAGGC	CGAA AUAAGCCA	15837
3897	CGCCAAAU U CUGCUCUG	530	CAGAGCAG CUGAUGAG	GCCGUUAGGC	CGAA AUUUGGCG	15838
3898	GCCAAAUU C UGCUCUGG	531	CCAGAGCA CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGCG	15839
3903	AUUCUGCU C UGGGAGAU	532	AUCUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AGCAGAAU	15840
3912	UGGAGAU C CGUGAUGU	533	ACAUCAGG CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCCA	15841
3923	UGAUGUGU U GAAUUCAC	534	GUGAAUUC CUGAUGAG	GCCGUUAGGC	CGAA ACACAUCA	15842
3928	UGUUGAAU U CACUGGCG	535	CGCCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AUUCAACA	15843
3929	GUUGAAUU C ACUGGCGG	536	CCGCCAGU CUGAUGAG	GCCGUUAGGC	CGAA AAUUCAAC	15844
3939	CUGGCGGU A GCUUGGAU	537	AUCCAAGC CUGAUGAG	GCCGUUAGGC	CGAA ACCGCCAG	15845
3943	CGGUAGCU U GGAUGAUA	538	UAUCAUCC CUGAUGAG	GCCGUUAGGC	CGAA AGCUACCG	15846
3951	UGGAUGAU A CUGAGAGC	539	GCUCUCAG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUCCA	15847
3963	AGAGCCAU A ACAUUCAC	540	GUGAUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGGUCUC	15848
3968	CAUAAAU C ACAACGA	541	UCGUUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUUAUG	15849
3969	AUAACAUI C ACAACGAC	542	GUCGUUGU CUGAUGAG	GCCGUUAGGC	CGAA AAUGUUAU	15850
3980	AACGACAU C AAACGUGG	543	CCACGUUU CUGAUGAG	GCCGUUAGGC	CGAA AUGUCGUU	15851
3990	AACGUGGU U GUUCCGCU	544	AGCGGAAC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGGUU	15852
3993	GUGGUUGU U CCGUGCU	545	AGCAGCGG CUGAUGAG	GCCGUUAGGC	CGAA ACAACCAC	15853
3994	UGGUUGUU C CGCUGCUA	546	UAGCAGCG CUGAUGAG	GCCGUUAGGC	CGAA AACAAACA	15854
4002	CCGUGUCU A GCCCUGCU	547	AGCAGGGC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGCGG	15855
4011	GCCCUGCU A ACACCGGG	548	CCGGUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCAGGGC	15856
4031	GAGAUGCU U GAAUCUGG	549	CCAGAUUC CUGAUGAG	GCCGUUAGGC	CGAA AGCAUCUC	15857
4036	GCUUGAAU C UGGAUGUG	550	CACAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AUUCAAGC	15858
4046	GGAUGUGU A CAGGAUAC	551	GUUUCUGU CUGAUGAG	GCCGUUAGGC	CGAA ACACAUCC	15859
4053	UACAGGAU A CUGCUGUU	552	AACAGCAG CUGAUGAG	GCCGUUAGGC	CGAA AUCCUGUA	15860
4061	ACUGCUGU U GAUGGUCG	553	CGACCAUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCAGU	15861
4068	UUGAUGGU C GGAAUAGG	554	CCUAUUCU CUGAUGAG	GCCGUUAGGC	CGAA ACCAUCAA	15862
4074	GUCGGAU A GGCAGCUU	555	AAGCUGCC CUGAUGAG	GCCGUUAGGC	CGAA AUUCGAGC	15863
4082	AGGCAUCU U GAUCAGGG	556	CCUGAUC CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCCU	15864
4086	AGCUUGAU C AGGGAGAA	557	UUCUCCCU CUGAUGAG	GCCGUUAGGC	CGAA AUCAAGCU	15865
4129	GAGCAAGU C UGCUAUGC	558	GCAUAGCA CUGAUGAG	GCCGUUAGGC	CGAA ACUUGCUC	15866
4134	AGUCUGCU A UGCUUGGC	559	GCCAAGCA CUGAUGAG	GCCGUUAGGC	CGAA AGCAGACU	15867
4139	GCUAUGCU U GGCUCUAG	560	CUAGAGCC CUGAUGAG	GCCGUUAGGC	CGAA AGCAUAGC	15868
4144	GCUUGGCU C UAGCCUCA	561	UGAGGCUA CUGAUGAG	GCCGUUAGGC	CGAA AGCCAAGC	15869
4146	UUGGCUCU A GCCUCAAC	562	GUUGAGGC CUGAUGAG	GCCGUUAGGC	CGAA AGAGCCAA	15870
4151	UCUAGCCU C AACAGGAC	563	GUCCUGUU CUGAUGAG	GCCGUUAGGC	CGAA AGGCUAGA	15871

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4161	ACAGGACU U UUCAACCC	564	GGGUUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGUCCUGU	15872
4162	CAGGACUU U UCAACCCC	565	GGGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA AAGUCCUG	15873
4163	AGGACUUU U CAACCCCA	566	UGGGGUUG CUGAUGAG	GCCGUUAGGC	CGAA AAAGUCCU	15874
4164	GGACUUUU C AACCCCAU	567	AUGGGGUU CUGAUGAG	GCCGUUAGGC	CGAA AAAAGUCC	15875
4176	CCCAGAU C CUUGCUGC	568	GCAGCAAG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGGG	15876
4179	AUGAUCCU U GCUGCUGG	569	CCAGCAGC CUGAUGAG	GCCGUUAGGC	CGAA AGGAUCAU	15877
4194	GGACUGAU U GCAUGUGA	570	UCACAUGC CUGAUGAG	GCCGUUAGGC	CGAA AUCAGUCC	15878
4204	CAUGUGAU C CCAACCGU	571	ACGGUUGG CUGAUGAG	GCCGUUAGGC	CGAA AUCACAUG	15879
4213	CCAACCGU A AACGCGGA	572	UCCGCGUU CUGAUGAG	GCCGUUAGGC	CGAA ACGGUUGG	15880
4251	ACAGCUGU C GGCCUAAU	573	AUUAGGCC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCUGU	15881
4257	GUCGGCCU A AUGUUUGC	574	GCAAACAU CUGAUGAG	GCCGUUAGGC	CGAA AGGCCGAC	15882
4262	CCUAAUGU U UGCCAUCG	575	CGAUGGCA CUGAUGAG	GCCGUUAGGC	CGAA ACAUUAGG	15883
4263	CUAAUGUU U GCCAUCGU	576	ACGAUGGC CUGAUGAG	GCCGUUAGGC	CGAA AACAUUAG	15884
4269	UUUGCCAU C GUCGGAGG	577	CCUCCGAC CUGAUGAG	GCCGUUAGGC	CGAA AUGGCAAA	15885
4272	GCCAUCGU C GGAGGGCU	578	AGCCCUCC CUGAUGAG	GCCGUUAGGC	CGAA AGCUGGCG	15886
4290	GCAGAGCU U GACAUGA	579	UCAAUUUC CUGAUGAG	GCCGUUAGGC	CGAA AGCUCUGC	15887
4296	CUUGACAU U GACUCCAU	580	AUGGAGUC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCAAG	15888
4301	CAUUGACU C CAUGGCCA	581	UGGCCAUG CUGAUGAG	GCCGUUAGGC	CGAA AGUCAUUG	15889
4311	AUGGCCAU U CCAUGAC	582	GUCAUUGG CUGAUGAG	GCCGUUAGGC	CGAA AUGGCCAU	15890
4312	UGGCCAUU C CAUAGACU	583	AGUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA AAUGGCCA	15891
4321	CAUAGACU A UCGCGGGG	584	ACCCCGCA CUGAUGAG	GCCGUUAGGC	CGAA AGUCAUUG	15892
4323	AUGACUAA C GCGGGGCU	585	AGCCCCGC CUGAUGAG	GCCGUUAGGC	CGAA AUAGUCAU	15893
4332	GCGGGGCU C AUGUUUGC	586	GCAAACAU CUGAUGAG	GCCGUUAGGC	CGAA AGCCCCGC	15894
4337	GCUCAUGU U UGCGUCUU	587	AAGCAGCA CUGAUGAG	GCCGUUAGGC	CGAA ACAUGAGC	15895
4338	CUCAUGUU U GCUGCUUU	588	AAAGCAGC CUGAUGAG	GCCGUUAGGC	CGAA AACAUAGG	15896
4345	UUGCUGCU U UCGUGAUU	589	AAUCACGA CUGAUGAG	GCCGUUAGGC	CGAA AGCAGCAA	15897
4346	UGCUGCUU U CGUGAUUU	590	AAAUCACG CUGAUGAG	GCCGUUAGGC	CGAA AAGCAGCA	15898
4347	GCUGCUUU C GUGAUUUC	591	GAAAUAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGCAGC	15899
4353	UUCGUGAU U UCUGGGAA	592	UUCCCGAG CUGAUGAG	GCCGUUAGGC	CGAA AUCACGAA	15900
4354	UCGUGAUU U CUGGGAAA	593	UUUCCGAC CUGAUGAG	GCCGUUAGGC	CGAA AAUACGAA	15901
4355	CGUGAUUU C UGGGAAAU	594	AUUUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUACACG	15902
4364	UGGGAAAU C AACAGAU	595	UAUCUGUU CUGAUGAG	GCCGUUAGGC	CGAA AUUUCCCA	15903
4372	CAACAGAU A UGUGGAUU	596	AAUCCACA CUGAUGAG	GCCGUUAGGC	CGAA AUCUGUUG	15904
4380	AUGUGGAU U GAGAGAAC	597	GUUCUCUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCACAU	15905
4398	GCGGACAU U UCCUGGGA	598	UCCCGAGA CUGAUGAG	GCCGUUAGGC	CGAA AUGUCCGC	15906
4399	CGGACAUU U CCUGGGAA	599	UUCCCGAG CUGAUGAG	GCCGUUAGGC	CGAA AAUGUCCG	15907
4400	GGACAUUU C CUGGGAAA	600	UUUCCGAC CUGAUGAG	GCCGUUAGGC	CGAA AAUUGUCC	15908
4422	GCAGAAAU U ACAGGCUC	601	GUUCCUGU CUGAUGAG	GCCGUUAGGC	CGAA AUUUCUGC	15909
4423	CAGAAAUU A CAGGCUCG	602	CGAGCCUG CUGAUGAG	GCCGUUAGGC	CGAA AAUUCUGC	15910
4430	UACAGGCU C GAGCGAAA	603	UUUCGCUC CUGAUGAG	GCCGUUAGGC	CGAA AGCCUGUA	15911
4443	GAAAGAGU U GAUGUGCG	604	CGCACAU CUGAUGAG	GCCGUUAGGC	CGAA ACUCUUUC	15912
4455	GUGCGGCU U GAUGAUGA	605	UCAUCAUC CUGAUGAG	GCCGUUAGGC	CGAA AGCCGCAC	15913
4472	UGGAAACU U CCAGCUCA	606	UGAGCUGG CUGAUGAG	GCCGUUAGGC	CGAA AGUUCUCA	15914
4473	GGAACCUU C CAGCUCAU	607	AUGAGCUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUUUCC	15915
4479	UUCGACU C AUGAUGA	608	UCAUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGCUGGAA	15916
4489	UGAAUGAU C CAGGAGCA	609	UGCUCUG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUUA	15917
4501	GAGCACCU U GGAAGAU	610	UAUCUUC CUGAUGAG	GCCGUUAGGC	CGAA AGGUGCUC	15918
4509	UGGAAGAU A UGGAUGCU	611	AGCAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AUCUUCUA	15919
4518	UGGAUGCU C AGAAUGGU	612	ACCAUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGCAUCCA	15920
4527	AGAAUGGU C UGUCUCGC	613	GCGAGACA CUGAUGAG	GCCGUUAGGC	CGAA ACCAUUCU	15921
4531	UGGUCUGU C UCGCGAUU	614	AAUCGCGA CUGAUGAG	GCCGUUAGGC	CGAA ACAGACCA	15922
4533	GUCUGUCU C GCGAUUAG	615	CUAAUCGC CUGAUGAG	GCCGUUAGGC	CGAA AGACAGAC	15923
4539	CUCGCGAU U AGUGCGUA	616	UACGCAU CUGAUGAG	GCCGUUAGGC	CGAA AUCGCGAG	15924
4540	UCGCGAUU A GUGCGUAC	617	GUACGCAC CUGAUGAG	GCCGUUAGGC	CGAA AAUCGCGA	15925
4547	UAGUGCGU A CACCCCUU	618	AGGGGGUG CUGAUGAG	GCCGUUAGGC	CGAA ACGCACUA	15926
4563	UGGGCAAU C UUGCCUC	619	GAGGGCAA CUGAUGAG	GCCGUUAGGC	CGAA AUUGCCCA	15927
4565	GGCAAUUC U GCCUCAG	620	CUGAGGCG CUGAUGAG	GCCGUUAGGC	CGAA AGAUUGCC	15928
4571	CUUGCCCU C AGUAGUUG	621	CAACUACU CUGAUGAG	GCCGUUAGGC	CGAA AGGGCAAG	15929
4575	CCCUCAGU A GUUGGAUU	622	AAUCCAAC CUGAUGAG	GCCGUUAGGC	CGAA ACUGAGGG	15930
4578	UCAGUAGU U GGAUUUUG	623	CAAAUCC CUGAUGAG	GCCGUUAGGC	CGAA ACUACUGA	15931
4583	AGUUGGAU U UUGGAUAA	624	UUUAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AUCCAACU	15932
4584	GUUGGAUU U UGGAUAAC	625	GUUAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUCCAAC	15933
4585	UUGGAUUU U GGAUAACU	626	AGUUAUCC CUGAUGAG	GCCGUUAGGC	CGAA AAUCCAAC	15934

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4590	UUUUGGAU A ACUCUCCA	627	UGGAGAGU CUGAUGAG	GCCGUUAGGC	CGAA AUCCAAAA	15935
4594	GGUAUACU C UCCAAUAC	628	GUUUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUUAUCC	15936
4596	AUAACUCU C CAUACAC	629	GUGUAUUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUUAU	15937
4601	UCUCCAUA A CACAAAGA	630	UCUUUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGGAGA	15938
4622	AGGCGUGU U GUGGGACA	631	UGUCCAC CUGAUGAG	GCCGUUAGGC	CGAA ACACGCCU	15939
4633	GGGACACU C CCUCACCA	632	UGGUGAGG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCC	15940
4637	CACUCCCU C ACCAAAGG	633	CCUUUGGU CUGAUGAG	GCCGUUAGGC	CGAA AGGGAGUG	15941
4649	AAAGGAGU A CAAAAAGG	634	CCUUUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUCCUUU	15942
4677	ACCGGCGU C UACAGGAU	635	AUCCUGUA CUGAUGAG	GCCGUUAGGC	CGAA ACGCCGGU	15943
4679	CGGCGUCU A CAGGAUCA	636	UGAUCCUG CUGAUGAG	GCCGUUAGGC	CGAA AGACGCCG	15944
4686	UACAGGAU C AUGACUCG	637	CGAGUCAU CUGAUGAG	GCCGUUAGGC	CGAA AUCCUGUA	15945
4693	UCAUGACU C GUGGGCUG	638	CAGCCAC CUGAUGAG	GCCGUUAGGC	CGAA AGUCAUGA	15946
4704	GGGUGUCU C GGCAGUUA	639	UAACUGCC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGCCC	15947
4711	UCGGCAGU U AUCAAGCA	640	UGCUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACUGCCGA	15948
4712	CGCAGUUA A UCAAGCAG	641	CUGUGUGA CUGAUGAG	GCCGUUAGGC	CGAA AACUCCG	15949
4714	GCAGUUAU C AAGCAGGA	642	UCCUGCUU CUGAUGAG	GCCGUUAGGC	CGAA AUACUGC	15950
4737	GUGAUGGU U GAAGGUGU	643	ACACCUUC CUGAUGAG	GCCGUUAGGC	CGAA ACCAUCAC	15951
4746	GAAGGUGU U UCCACAC	644	GUGUGGAA CUGAUGAG	GCCGUUAGGC	CGAA ACACCUUC	15952
4747	AAGGUGUU U UCCACACC	645	GGUGUGGA CUGAUGAG	GCCGUUAGGC	CGAA AACACCUU	15953
4748	AGGUGUUU U CCACACCC	646	GGGUGUGG CUGAUGAG	GCCGUUAGGC	CGAA AAACACCU	15954
4749	GGUGUUUU C CACACCCU	647	AGGGUGUG CUGAUGAG	GCCGUUAGGC	CGAA AAAACACC	15955
4758	CACACCCU U UGGCAUAC	648	GUUAUGCA CUGAUGAG	GCCGUUAGGC	CGAA AGGGUGUG	15956
4759	CACCCUUU U GGCAUACA	649	UUAUGCC CUGAUGAG	GCCGUUAGGC	CGAA AAGGGUGU	15957
4765	UUUGGCAU A CAACAAAA	650	UUUUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGCCAAA	15958
4783	GAGCCGCU U UGAUGAGC	651	GCUCAUCA CUGAUGAG	GCCGUUAGGC	CGAA AGCGGCUC	15959
4784	AGCCGCUU U GAUGAGCG	652	CGCUCAUC CUGAUGAG	GCCGUUAGGC	CGAA AAGCGGCU	15960
4814	GGACCCAU A CUGGGGCA	653	UGCCCCAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGGUCC	15961
4827	GGCAGUGU C AAGGAGGA	654	UCCUCCUU CUGAUGAG	GCCGUUAGGC	CGAA ACACUGCC	15962
4837	AGGAGGAU C GACUUUGU	655	ACAAAGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCUCCU	15963
4842	GAUCACU U UGUUACGG	656	CCGUUACA CUGAUGAG	GCCGUUAGGC	CGAA AGUCCAU	15964
4843	AUCGACU U GUUACGGA	657	UCCGUUAC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCGAU	15965
4846	GACUUUGU U ACGGAGGA	658	UCCUCCGU CUGAUGAG	GCCGUUAGGC	CGAA ACAAAGUC	15966
4847	ACUUUGUU A CGGAGGAC	659	GUCCUCCG CUGAUGAG	GCCGUUAGGC	CGAA AACAAAGU	15967
4865	CUGGAAAU U GCAGCACA	660	UGUGCUGC CUGAUGAG	GCCGUUAGGC	CGAA AUUCCAG	15968
4905	CAGAUGAU U GUGGUGGA	661	UCCACCAC CUGAUGAG	GCCGUUAGGC	CGAA AUCAUCUG	15969
4929	AAGAACGU U AAGAACGU	662	ACGUUCUU CUGAUGAG	GCCGUUAGGC	CGAA ACGUUCUU	15970
4930	AGAACGUU A AGAACGUC	663	GACGUUCU CUGAUGAG	GCCGUUAGGC	CGAA AACGUUCU	15971
4938	AAGAACGU C CAGACGAA	664	UUGGUCUG CUGAUGAG	GCCGUUAGGC	CGAA ACGUUCUU	15972
4958	AGGGGUGU U CAAAACAC	665	GUGUUUG CUGAUGAG	GCCGUUAGGC	CGAA ACACCCU	15973
4959	GGGUGUGU C AAAACACC	666	GGUGUUUU CUGAUGAG	GCCGUUAGGC	CGAA AACACCCC	15974
4980	GGAGAAAU C GGGGCCGU	667	ACGGCCCC CUGAUGAG	GCCGUUAGGC	CGAA AUUUCUCC	15975
4993	CCGUGACU U UGACUUC	668	GAAGUCCA CUGAUGAG	GCCGUUAGGC	CGAA AGUCACGG	15976
4994	CCUGACUU U GGACUUC	669	GGAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCACG	15977
5000	UUUGGACU U CCCACUG	670	CAGUGGGG CUGAUGAG	GCCGUUAGGC	CGAA AGUCCAAA	15978
5001	UUGGACUU C CCCACUGG	671	CCAGUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCCAA	15979
5015	UGGAACAU C AGGCUCAC	672	GAGGACCU CUGAUGAG	GCCGUUAGGC	CGAA AUGUCCA	15980
5021	AUCAGGCU C ACCAAUAG	673	CUAUUGGU CUGAUGAG	GCCGUUAGGC	CGAA AGCCUGAU	15981
5028	UCACCAAU A GUGGACAA	674	UUGUCCAC CUGAUGAG	GCCGUUAGGC	CGAA AUUGGUGA	15982
5052	GAUGUGAU U GGGCUUA	675	UAAAGCCC CUGAUGAG	GCCGUUAGGC	CGAA AUCACAUC	15983
5058	AUUGGGCU U UAUGGCAA	676	UUGCCAUA CUGAUGAG	GCCGUUAGGC	CGAA AGCCCAAU	15984
5059	UUGGGCUU U AUGGCAAU	677	AUUGCCAU CUGAUGAG	GCCGUUAGGC	CGAA AAGCCCAA	15985
5060	UGGGCUUU A UGGCAAUG	678	CAUUGCCA CUGAUGAG	GCCGUUAGGC	CGAA AAAGCCCA	15986
5073	AAUGGAGU C AUAUAGCC	679	GGCAUUAU CUGAUGAG	GCCGUUAGGC	CGAA ACUCCAUU	15987
5076	GGAGUCAU A AUGCCCAA	680	UUGGGCAU CUGAUGAG	GCCGUUAGGC	CGAA AUGACUCC	15988
5090	CAACGGCU C AUACAUA	681	UUAUGUAU CUGAUGAG	GCCGUUAGGC	CGAA AGCCGUUG	15989
5093	CGGCUCAU A CAUAAGCG	682	CGCUUAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGAGCCG	15990
5097	UCAUACAU A AGCGCGAU	683	AUCGCGCU CUGAUGAG	GCCGUUAGGC	CGAA AUGUAUGA	15991
5106	AGCGCGAU A GUGCAGGG	684	CCUGGCAC CUGAUGAG	GCCGUUAGGC	CGAA AUCGCGCU	15992
5136	GAGCCAAU C CCAGCCGG	685	CCGCGUGG CUGAUGAG	GCCGUUAGGC	CGAA AUUGGCUC	15993
5147	AGCCGGAU U CGAACCCUG	686	CAGGUUCG CUGAUGAG	GCCGUUAGGC	CGAA AUCCGGCU	15994
5148	GCCGGAUU C GAACCUGA	687	UACGGUUC CUGAUGAG	GCCGUUAGGC	CGAA AAUCCGGC	15995
5178	AAACAGAU C ACUGUACU	688	AGUACAGU CUGAUGAG	GCCGUUAGGC	CGAA AUUGUUU	15996
5184	AUCACUGU A CUGGAUCU	689	AGAUCAG CUGAUGAG	GCCGUUAGGC	CGAA ACAGUGAU	15997

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5191	UACUGGAU C UCCAUC	690	GGGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA AUCCAGUA	15998
5193	CUGGAUCU C CAUCCCG	691	CCGGGAUG CUGAUGAG	GCCGUUAGGC	CGAA AGAUCCAG	15999
5197	AUCUCCAU C CCGCGCC	692	GGCGCCGG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGAU	16000
5209	GCGCCGGU A AAACAAGG	693	CCUUGUUU CUGAUGAG	GCCGUUAGGC	CGAA ACCGCGC	16001
5223	AGGAGGAU U CUGCCACA	694	UGUGGCAG CUGAUGAG	GCCGUUAGGC	CGAA AUCCUCCU	16002
5224	GGAGGAU C UGCCACAG	695	CUGUGGCA CUGAUGAG	GCCGUUAGGC	CGAA AAUCCUCC	16003
5235	CCACAGAU C AUCAAAGA	696	UCUUGAU CUGAUGAG	GCCGUUAGGC	CGAA AUCUGUGG	16004
5238	CAGAUCAU C AAAGAGGC	697	GCCUCUUU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUCUG	16005
5250	GAGGCAU A AACAGAAG	698	AUGACAUC CUGAUGAG	GCCGUUAGGC	CGAA ACAUCCUC	16006
5277	GCCGUGCU A GCACCAAC	699	GUUGGUGC CUGAUGAG	GCCGUUAGGC	CGAA AGCACGGC	16007
5292	ACCAGGGU U GUGGUGC	700	GCAGCCAC CUGAUGAG	GCCGUUAGGC	CGAA ACCCUGGU	16008
5334	CUGCCCAU C CGGUACCA	701	UGGUACCG CUGAUGAG	GCCGUUAGGC	CGAA AUGGCGAG	16009
5339	CAUCCGGU A CCAGACAU	702	AUGUCUGG CUGAUGAG	GCCGUUAGGC	CGAA ACCGGAUG	16010
5348	CCAGACAU C CGCAGUGC	703	GCACUGCG CUGAUGAG	GCCGUUAGGC	CGAA AUGUCUGG	16011
5368	GAGAACAU A AUGGAAU	704	AUUUCCAU CUGAUGAG	GCCGUUAGGC	CGAA AUGUUCUC	16012
5382	AAUGAGAU U GUUGAUGU	705	ACAUCAAC CUGAUGAG	GCCGUUAGGC	CGAA AUCUCAU	16013
5385	GAGAUUGU U GAUGUCAU	706	AUGACAUC CUGAUGAG	GCCGUUAGGC	CGAA ACAUCCUC	16014
5391	GUUGAUGU C AUGUGUCA	707	UGACACAU CUGAUGAG	GCCGUUAGGC	CGAA ACAUCAAC	16015
5398	UCAUGUGU C AUGCUACC	708	GGUAGCAU CUGAUGAG	GCCGUUAGGC	CGAA ACACAUGA	16016
5404	GUCAUGCU A CCCUCACC	709	GGUGAGGG CUGAUGAG	GCCGUUAGGC	CGAA AGCAUGAC	16017
5409	GUUACCU C ACCCAGAG	710	CUGUGGGU CUGAUGAG	GCCGUUAGGC	CGAA AGGGUAGC	16018
5426	GUUGAUGU C UCCUCACA	711	UGUGAGGA CUGAUGAG	GCCGUUAGGC	CGAA ACAUCAGC	16019
5428	UGAUGUCU C CUCACAGG	712	CCUGUGAG CUGAUGAG	GCCGUUAGGC	CGAA AGACAUCA	16020
5431	UGUCUCCU C ACAGGUG	713	CACCCUGU CUGAUGAG	GCCGUUAGGC	CGAA AGGAGACA	16021
5447	GCCGAACU A CAACCUGU	714	ACAGGUGU CUGAUGAG	GCCGUUAGGC	CGAA AGUUCGGC	16022
5456	CAACCUGU U CGUGAUGG	715	CCAUCACG CUGAUGAG	GCCGUUAGGC	CGAA ACAGGUUG	16023
5457	AACCUGUU C GUGAUGGA	716	UCCAUCAC CUGAUGAG	GCCGUUAGGC	CGAA AACAGGUU	16024
5473	AUGAGGCU C AUUUCACC	717	GGUGAAAU CUGAUGAG	GCCGUUAGGC	CGAA AGCCUCAU	16025
5476	AGGCUCAU U UCACCGAC	718	GUCGGUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGAGCCU	16026
5477	GGCUCAU U CACCGACC	719	GGUCGGUG CUGAUGAG	GCCGUUAGGC	CGAA AAUGAGCC	16027
5478	GCUCAUUU C ACCGACCC	720	GGGUCGGU CUGAUGAG	GCCGUUAGGC	CGAA AAAUGAGC	16028
5491	ACCCAGCU A GCAUUGCA	721	UGCAAUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCUGGGU	16029
5496	GUUAGCAU U CGAGCAAG	722	CUUGCUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGCUAGC	16030
5509	CAAGAGGU U ACAUUCU	723	GGAAAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACCUCUUG	16031
5510	AAGAGGUU A CAUUCUCA	724	UGGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA AACCUCUU	16032
5514	GGUACAU U UCCACAAA	725	UUUGUGGA CUGAUGAG	GCCGUUAGGC	CGAA AUGUAACC	16033
5515	GUUACAUU U CCACAAAG	726	CUUUGUGG CUGAUGAG	GCCGUUAGGC	CGAA AAUGUAAC	16034
5516	UUACAUUU C CACAAAGG	727	CCUUGUGU CUGAUGAG	GCCGUUAGGC	CGAA AAAUGUAA	16035
5526	ACAAAGGU C GAGCUAGG	728	CCUAGCUC CUGAUGAG	GCCGUUAGGC	CGAA ACCUUUGU	16036
5532	GUCGAGCU A GGGGAGGC	729	GCCUCCCC CUGAUGAG	GCCGUUAGGC	CGAA AGCUCGAC	16037
5550	GCGGCAAU A UUAUGAC	730	GUCAUGAA CUGAUGAG	GCCGUUAGGC	CGAA AUUGCCGC	16038
5552	GGCAUAU U CAUGACAG	731	CUGUCAUG CUGAUGAG	GCCGUUAGGC	CGAA AUUUGGCC	16039
5553	GCAUAUUU C AUGACAGC	732	GCUGUCAU CUGAUGAG	GCCGUUAGGC	CGAA AAUAUUGC	16040
5578	CAGGCACU U CAGAUCCA	733	UGGAUCUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGCCUG	16041
5579	AGGCACU C AGAUCCAU	734	AUGGAUCU CUGAUGAG	GCCGUUAGGC	CGAA AAGUGCCU	16042
5584	CUUCAGAU C CAUCCCA	735	UGGGAUUG CUGAUGAG	GCCGUUAGGC	CGAA AUCUGAAG	16043
5588	AGAUCCAU U CCCAGAGU	736	ACUCUGGG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUCU	16044
5589	GAUCCAUU C CCAGAGUC	737	GACUCUGG CUGAUGAG	GCCGUUAGGC	CGAA AAUGGAUC	16045
5597	CCCAGAGU C CAAUUCAC	738	GUGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUCUGGG	16046
5602	AGUCCAAU U CACCAAUU	739	AAUUGGUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGGACU	16047
5603	GUCCAAU C ACCAAUUU	740	AAAUUGGU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGAC	16048
5610	UCACCAAU U UCCGACUU	741	AAGUCGGA CUGAUGAG	GCCGUUAGGC	CGAA AUUGGUGA	16049
5611	CACCAAUU U CCGACUUA	742	UAAGUCGG CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGUG	16050
5612	ACCAAUUU C CGACUUA	743	GUAAGUCG CUGAUGAG	GCCGUUAGGC	CGAA AAAUUGGU	16051
5618	UUCGACU U ACAGACUG	744	CAGUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AGUCGGA	16052
5619	UCCGACUU A CAGACUGA	745	UCAGUCUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCGGA	16053
5631	ACUGAGAU C CCGGAUCG	746	CGAUCCGG CUGAUGAG	GCCGUUAGGC	CGAA AUCUCAGU	16054
5638	UCCCGGAU C GAGCUUGG	747	CCAAGCUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCGGGA	16055
5644	AUCGAGCU U GGAACUCU	748	AGAGUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGCUCGAU	16056
5651	UUGGAACU C UGGAUACG	749	CGUAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AGUCCCAA	16057
5657	CUCUGGAU A CGAAUGGA	750	UCCAUCUG CUGAUGAG	GCCGUUAGGC	CGAA AUCCAGAG	16058
5667	GAAUGGAU C ACAGAAUA	751	UAUUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AUCCAUCU	16059
5675	CACAGAAU A CACCGGGA	752	UCCCGGUG CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGUG	16060

Table III

5691	AAGACGGU U UGGUUGU	753	ACAAACCA CUGAUGAG	GCCGUUAGGC	CGAA ACCGUCUU	16061
5692	AGACGGUU U GGUUUGUG	754	CACAAACC CUGAUGAG	GCCGUUAGGC	CGAA AACCGUCU	16062
5696	GGUUGGUU U UGUGCCUA	755	UAGGCACA CUGAUGAG	GCCGUUAGGC	CGAA ACCAAACC	16063
5697	GUUUGGUU U GUGCCUAG	756	CUAGGCAC CUGAUGAG	GCCGUUAGGC	CGAA AACCAAAC	16064
5704	UUGUGCCU A GUGUCAAG	757	CUUGACAC CUGAUGAG	GCCGUUAGGC	CGAA AGGCACAA	16065
5709	CCUAGUGU C AAGAUGGG	758	CCCAUCUU CUGAUGAG	GCCGUUAGGC	CGAA ACACUAGG	16066
5727	AAUGAGAU U GCCCUUUG	759	CAAAGGGC CUGAUGAG	GCCGUUAGGC	CGAA AUCUCAU	16067
5733	AUUGCCCU U UGCCUACA	760	UGUAGGCA CUGAUGAG	GCCGUUAGGC	CGAA AAGGCAAU	16068
5734	UUGCCCUU U GCCUACAA	761	UGUAGGC CUGAUGAG	GCCGUUAGGC	CGAA AAGGGCAA	16069
5739	CUUUGCCU A CAACUGC	762	GCACGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGCAAAG	16070
5760	AAGAAAGU A GUCCAAU	763	AAUUGGAC CUGAUGAG	GCCGUUAGGC	CGAA ACUUUCU	16071
5763	AAAGUAGU C CAUUGAA	764	UUCAAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUACUU	16072
5768	AGUCCAAU U GAACAGAA	765	UUCUGUUC CUGAUGAG	GCCGUUAGGC	CGAA AUUGGACU	16073
5780	CAGAAAGU C GUACGAGA	766	UCUCGUAC CUGAUGAG	GCCGUUAGGC	CGAA ACUUUCUG	16074
5783	AAAGUCGU A CGAGACGG	767	CCGUCUG CUGAUGAG	GCCGUUAGGC	CGAA ACGACUU	16075
5795	GACGGAGU A CCCAAAU	768	AUUUUGG CUGAUGAG	GCCGUUAGGC	CGAA AUGCCGUC	16076
5806	CAAAAGU A AGAACGAU	769	AUCGUUCU CUGAUGAG	GCCGUUAGGC	CGAA ACAUUUUG	16077
5818	ACGAUGAU U GGGACUU	770	AAAGUCCC CUGAUGAG	GCCGUUAGGC	CGAA AUCAUCGU	16078
5825	UUGGGACU U UGUUAUCA	771	UGAUAACA CUGAUGAG	GCCGUUAGGC	CGAA AGUCCCAA	16079
5826	UGGGACUU U GUUAUCAC	772	GUGUAUAC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCCCA	16080
5829	GACUUGU U AUCACAAC	773	GUUGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAAGUC	16081
5830	ACUUGUUA A UCACAACA	774	UGUUGUGA CUGAUGAG	GCCGUUAGGC	CGAA AACAAAGU	16082
5832	UUUGUUAU C ACAACAGA	775	UCUGUUGU CUGAUGAG	GCCGUUAGGC	CGAA AUAACAA	16083
5844	ACAGACAU A UCUGAAU	776	AUUUCAGA CUGAUGAG	GCCGUUAGGC	CGAA AUGUCUGU	16084
5846	AGACAUAU C UGAAUUG	777	CCAUUUA CUGAUGAG	GCCGUUAGGC	CGAA AUAUGUCU	16085
5860	UGGGGGCU A ACUUCAG	778	CUUGAAGU CUGAUGAG	GCCGUUAGGC	CGAA AGCCCCCA	16086
5864	GGCUAACU U CAAGGCCA	779	UCGCCUUG CUGAUGAG	GCCGUUAGGC	CGAA AGUUAGCC	16087
5865	GCUAACUU C AAGGCGAG	780	CUCGCCUU CUGAUGAG	GCCGUUAGGC	CGAA AAGUUAGC	16088
5883	AGGGUGAU U GACAGCCG	781	CGGCUGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCACCCU	16089
5913	CCAACCAU C AUAACAGA	782	UCUGUUAU CUGAUGAG	GCCGUUAGGC	CGAA AUGGUUGG	16090
5916	ACCAUCAU A ACAGAAGG	783	CCUUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGGU	16091
5940	AGAGUGAU C UGGGAGA	784	UCUCCAG CUGAUGAG	GCCGUUAGGC	CGAA AUCACUCU	16092
5954	AGAACCAU C UGCAGUGA	785	UCACUGCA CUGAUGAG	GCCGUUAGGC	CGAA AUGGUUCU	16093
5971	CAGCAGCU A GUGCCGCC	786	GGCGGCAC CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCUG	16094
5995	GUGGACGU A UCGGUAGA	787	UCUACCGA CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCAC	16095
5997	GGACGUAU C GGUAGAAA	788	UUUCUACC CUGAUGAG	GCCGUUAGGC	CGAA AUACGUCC	16096
6001	GUUUCGGU A GAAUCCG	789	CGGAUUUC CUGAUGAG	GCCGUUAGGC	CGAA ACCGAUAC	16097
6007	GUAGAAAU C CGUCGCAA	790	UUGCGACG CUGAUGAG	GCCGUUAGGC	CGAA AUUUCUAC	16098
6011	AAAUCCGU C GCAAGUUG	791	CAACUUG CUGAUGAG	GCCGUUAGGC	CGAA ACGGAUUU	16099
6018	UCGCAAGU U GGUGAUGA	792	UUAUCCG CUGAUGAG	GCCGUUAGGC	CGAA ACUUGCGA	16100
6029	UGAUGAGU A CUGUUAUG	793	CAUAACAG CUGAUGAG	GCCGUUAGGC	CGAA ACUCAUCA	16101
6034	AGUACUGU U AUGGGGGG	794	CCCCCAU CUGAUGAG	GCCGUUAGGC	CGAA ACAGUACU	16102
6035	GUACUGUU A UGGGGGGC	795	GCCCCCA CUGAUGAG	GCCGUUAGGC	CGAA AACAGUAC	16103
6062	AGACGACU C GAACUUCG	796	CGAAGUUC CUGAUGAG	GCCGUUAGGC	CGAA AGUCGUCU	16104
6068	CUCGAACU U CGCCCAU	797	AAUGGGCG CUGAUGAG	GCCGUUAGGC	CGAA AGUUCGAG	16105
6069	UCGAACUU C GCCCAUUG	798	CAAUGGGC CUGAUGAG	GCCGUUAGGC	CGAA AAGUUCGA	16106
6076	UCGCCAUU U GGACUGAG	799	CUCAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AUGGGCGA	16107
6093	GCACGAU C AUGCUGGA	800	UCCAGCAU CUGAUGAG	GCCGUUAGGC	CGAA AUUCGUGC	16108
6108	GACAACAU C AACAUGCC	801	GGCAUGUU CUGAUGAG	GCCGUUAGGC	CGAA AUGUUGUC	16109
6129	GGACUGAU C GCUCAAU	802	AAUUGAGC CUGAUGAG	GCCGUUAGGC	CGAA AUCAGUCC	16110
6133	UGAUCGCU C AAUUCUAC	803	GUAGAAUU CUGAUGAG	GCCGUUAGGC	CGAA AGCGAUCA	16111
6137	CGUCAAU U CUACCAAC	804	GUUGGUAG CUGAUGAG	GCCGUUAGGC	CGAA AUUGAGCG	16112
6138	GCUCAAUU C UACCAACC	805	GGUUGGUA CUGAUGAG	GCCGUUAGGC	CGAA AAUUGAGC	16113
6140	UCAAUUCU A CCAACCAG	806	UUGGUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUUGA	16114
6162	GAGAAGU A UAUACCAU	807	AUGGUUA CUGAUGAG	GCCGUUAGGC	CGAA ACCUUCUC	16115
6164	GAAGGUU A UACCAUGG	808	CCAUGGUA CUGAUGAG	GCCGUUAGGC	CGAA AUACCUUC	16116
6166	AGGUUAU A CCAUGGAU	809	AUCCAUGG CUGAUGAG	GCCGUUAGGC	CGAA AUAUACCU	16117
6182	UGGGGAU A CCGGCUCA	810	UGAGCCGG CUGAUGAG	GCCGUUAGGC	CGAA AUUCCCCA	16118
6189	UACCGGCU C AGAGGAGA	811	UCUCCUCU CUGAUGAG	GCCGUUAGGC	CGAA AGCCGGUA	16119
6212	AAAAACU U UCUGGAAC	812	GUUCCAGA CUGAUGAG	GCCGUUAGGC	CGAA AGUUUUUU	16120
6213	AAAAACUU U CUGGAACU	813	AGUCCAG CUGAUGAG	GCCGUUAGGC	CGAA AAGUUUUU	16121
6214	AAAACUUU C UGGAACUG	814	CAGUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAAGUUUU	16122
6224	GGAACUGU U GAGGACUG	815	CAGUCCUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGUUCU	16123

Table III

6238	CUGCAGAU C UGCCAGUU	816	AACUGGCA CUGAUGAG GCCGUUAGGC	CGAA AUCUGCAG	16124
6246	CUGCCAGU U UGGCUGGC	817	GCCAGCCA CUGAUGAG GCCGUUAGGC	CGAA ACUGGCAG	16125
6247	UGCCAGUU U GGCUGGCU	818	AGCCAGCC CUGAUGAG GCCGUUAGGC	CGAA AACUGGCA	16126
6256	GGCUGGCU U ACAAGGUU	819	AACCUUGU CUGAUGAG GCCGUUAGGC	CGAA AGCCAGCC	16127
6257	GCUGGCUU A CAAGGUUG	820	CAACCUUG CUGAUGAG GCCGUUAGGC	CGAA AAGCCAGC	16128
6264	UACAAGGU U GCAGCGGC	821	GCCGCGUC CUGAUGAG GCCGUUAGGC	CGAA ACCUUGUA	16129
6281	UGGAGUGU C AUACCACG	822	CGUGGUU CUGAUGAG GCCGUUAGGC	CGAA ACACUCCA	16130
6284	AGUGUCAU A CCACGACC	823	GGUCGUGG CUGAUGAG GCCGUUAGGC	CGAA AUGACACU	16131
6305	GUGGUGCU U UGAUGGUC	824	GACCAUCA CUGAUGAG GCCGUUAGGC	CGAA AGCACCAC	16132
6306	UGGUGCUU U GAUGGUCC	825	GGACCAUC CUGAUGAG GCCGUUAGGC	CGAA AAGCACCA	16133
6313	UUGAUGGU C CUAGGACA	826	UGUCUUG CUGAUGAG GCCGUUAGGC	CGAA ACCAUCAA	16134
6316	AUGGUCCU A GGACAAAC	827	GUUUGUCC CUGAUGAG GCCGUUAGGC	CGAA AGGACCAU	16135
6330	AACACAAU U UAGAAGA	828	UCUUCUAA CUGAUGAG GCCGUUAGGC	CGAA AUUGUGUU	16136
6331	ACACAAU U UAGAAGAC	829	GUCUUCUA CUGAUGAG GCCGUUAGGC	CGAA AAUUGUGU	16137
6332	CACAAUUU U AGAAGACA	830	UGUCUUUC CUGAUGAG GCCGUUAGGC	CGAA AAAUUGUG	16138
6333	ACAAUUUU A GAAGACAA	831	UUGUCUUC CUGAUGAG GCCGUUAGGC	CGAA AAAUUGUG	16139
6357	GUGGAAGU C AUCACGAA	832	UUCGUGAU CUGAUGAG GCCGUUAGGC	CGAA ACUCCAC	16140
6360	GAAGUCAU C ACGAAGCU	833	AGCUUCGU CUGAUGAG GCCGUUAGGC	CGAA AUGACUUC	16141
6369	ACGAAGCU U GGUGAAAG	834	CUUUCACC CUGAUGAG GCCGUUAGGC	CGAA AGCUUCGU	16142
6384	AGGAAGAU U CUGAGGCC	835	GGCCUCAG CUGAUGAG GCCGUUAGGC	CGAA AUCUCCU	16143
6385	GGAAAGAU C UGAGGCCG	836	CGGCCUCA CUGAUGAG GCCGUUAGGC	CGAA AAUCUCC	16144
6402	CGCUGGAU U GACGCCAG	837	CUGGCGUC CUGAUGAG GCCGUUAGGC	CGAA AUCCAGCG	16145
6416	CAGGGUGU A CUCGGAUC	838	GAUCCGAG CUGAUGAG GCCGUUAGGC	CGAA ACACCCUG	16146
6419	GGUGUACU C GGAUCACC	839	GGUGAUCC CUGAUGAG GCCGUUAGGC	CGAA AGUACACC	16147
6424	ACUCGGAU C ACCAGGCA	840	UGCCUGGU CUGAUGAG GCCGUUAGGC	CGAA AUCCGAGU	16148
6435	CAGGCACU A AAGGCGUU	841	AACGCCUU CUGAUGAG GCCGUUAGGC	CGAA AGUGCCUG	16149
6443	AAAGGCGU U CAAGGACU	842	AGUCCUUG CUGAUGAG GCCGUUAGGC	CGAA ACGCCUUU	16150
6444	AAGGCGUU C AAGGACUU	843	AAGUCCUU CUGAUGAG GCCGUUAGGC	CGAA AACGCCUU	16151
6452	CAAGGACU U CGCCUCGG	844	CCGAGGCG CUGAUGAG GCCGUUAGGC	CGAA AGUCCUUG	16152
6453	AAGGACUU C GCCUCGGG	845	CCCGAGGC CUGAUGAG GCCGUUAGGC	CGAA AAGUCCUU	16153
6458	CUUCGCCU C GGGAAAAC	846	GUUUCCCC CUGAUGAG GCCGUUAGGC	CGAA AGGCGAAG	16154
6469	GAAAACGU U CUCAGAU	847	UAUUCGAG CUGAUGAG GCCGUUAGGC	CGAA ACGUUUUC	16155
6470	AAAACGUU C UCAGAUAG	848	CUAUCUGA CUGAUGAG GCCGUUAGGC	CGAA AACGUUUU	16156
6472	AACGUUCU C AGAUAGGG	849	CCCUAUCU CUGAUGAG GCCGUUAGGC	CGAA AGAACGUU	16157
6477	UCUCAGAU A GGGCUCAU	850	AUGAGCCC CUGAUGAG GCCGUUAGGC	CGAA AUCUGAGA	16158
6483	AUAGGGCU C AUUGAGGU	851	ACCUCAAU CUGAUGAG GCCGUUAGGC	CGAA AGCCCUAU	16159
6486	GGGCUCAU U GAGGUUCU	852	AGAACCUC CUGAUGAG GCCGUUAGGC	CGAA AUGAGCCC	16160
6492	AUUGAGGU U CUGGGAAA	853	UUUCCCG CUGAUGAG GCCGUUAGGC	CGAA ACCUCAU	16161
6493	UUGAGGUU C UGGGAAAG	854	UUUCCCA CUGAUGAG GCCGUUAGGC	CGAA AACUCAU	16162
6515	UGAGCACU U CAUGGGGA	855	UCCCAUG CUGAUGAG GCCGUUAGGC	CGAA AGUCUCA	16163
6516	GAGCACUU C AUGGGGAA	856	UUCCCAU CUGAUGAG GCCGUUAGGC	CGAA AAGUGCUC	16164
6540	GAAGCACU U GACACCAU	857	AUGGUGUC CUGAUGAG GCCGUUAGGC	CGAA AGUGCUC	16165
6551	CACCAUGU A CGUUGUGG	858	CCACAACG CUGAUGAG GCCGUUAGGC	CGAA ACAUGGUG	16166
6555	AUGUACGU U GUGGCCAC	859	GUGGCCAC CUGAUGAG GCCGUUAGGC	CGAA ACGUACAU	16167
6586	GAAGAGCU C ACAGAAUG	860	CAUUCUGU CUGAUGAG GCCGUUAGGC	CGAA AGCUCUUC	16168
6619	CAGAUCCU C UUCAGACA	861	UGUCUGA CUGAUGAG GCCGUUAGGC	CGAA AGCAUCUG	16169
6621	GAUGCUCU U CAGACAAU	862	AUUGUCUG CUGAUGAG GCCGUUAGGC	CGAA AGAGCAUC	16170
6622	AUGCUCUU C AGACAAU	863	AAUUGUCU CUGAUGAG GCCGUUAGGC	CGAA AAGAGCAU	16171
6630	CAGACAAU U GCCUUGAU	864	AUCAAGGC CUGAUGAG GCCGUUAGGC	CGAA AUUGUCUG	16172
6635	AAUUGCCU U GAUUGCCU	865	AGGCAAUC CUGAUGAG GCCGUUAGGC	CGAA AGGCAAU	16173
6639	GCCUUGAU U GCCUUAU	866	AAUAAAGC CUGAUGAG GCCGUUAGGC	CGAA AUCAGGC	16174
6644	GAUUGCCU U AUUGAGUG	867	CACUCAU CUGAUGAG GCCGUUAGGC	CGAA AGGCAAUC	16175
6645	AUUGCCUU A UUGAGUGU	868	ACACUCAA CUGAUGAG GCCGUUAGGC	CGAA AAGGCAAU	16176
6647	UGCCUUUA U GAGUGUGA	869	UCACACUC CUGAUGAG GCCGUUAGGC	CGAA AUAAGGCA	16177
6669	AUGGGAGU A UUCUCCU	870	AGGAAGAA CUGAUGAG GCCGUUAGGC	CGAA ACUCCAU	16178
6671	GGGAGUAU U CUUCCUCC	871	GGAGGAAG CUGAUGAG GCCGUUAGGC	CGAA AUUCUCC	16179
6672	GGAGUAUU C UUCUCCU	872	AGGAGGAA CUGAUGAG GCCGUUAGGC	CGAA AAUACUCC	16180
6674	AGUAUUCU U CCUCUCA	873	UGAGGAGG CUGAUGAG GCCGUUAGGC	CGAA AGAAUACU	16181
6675	GUUAUUCU C CUUCUCA	874	AUGAGGAG CUGAUGAG GCCGUUAGGC	CGAA AAGAAUAC	16182
6678	UUCUUCUU C CUCAUGCA	875	UGCAUGAG CUGAUGAG GCCGUUAGGC	CGAA AGGAAGAA	16183
6681	UUCUCCU C AUGCAGCG	876	CGCUGCAU CUGAUGAG GCCGUUAGGC	CGAA AGGAGGAA	16184
6699	AAGGGCAU U GGAAGAU	877	AUCUUUCC CUGAUGAG GCCGUUAGGC	CGAA AUGCCUUU	16185
6708	GGAAAGAU A GGUUGGG	878	CCCAACC CUGAUGAG GCCGUUAGGC	CGAA AUCUUUCC	16186

Table III

6712	AGAUAGGU U UGGGAGGC	879	GCCUCCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUAUCU	16187
6713	GAUAGGUU U GGGAGGCG	880	CGCCUCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCUAUC	16188
6726	GGCGCUGU C UUGGGAGU	881	ACUCCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGCGCC	16189
6728	CGCUGUCU U GGGAGUCG	882	CGACUCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGACAGCG	16190
6735	UUGGGAGU C GCGACCUU	883	AAGGUCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCCCAA	16191
6743	CGCGACCU U UUCUGUU	884	AACAGAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUCGCG	16192
6744	GCGACCUU U UUCUGUUG	885	CAACAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGUCGC	16193
6745	CGACCUUU U UCUGUUGG	886	CCAACAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAGGUCG	16194
6746	GACCUUUU U CUGUUGGA	887	UCCAACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAAGGUC	16195
6747	ACCUUUUU C UGUUGGAU	888	AUCCAACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAAGGCU	16196
6751	UUUUCUGU U GGAUGGCU	889	AGCCAUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGAAAA	16197
6765	GCUGAAGU U CCAGGAAC	890	GUUCCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUCAGC	16198
6766	CUGAAGUU C CAGGAACG	891	CGUUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUUCAG	16199
6780	ACGAAGAU C GCCGGAU	892	AUUCCGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCUUCGU	16200
6791	CGGAAGU U GCUGCUCU	893	AGAGCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUUCUG	16201
6798	UUGCUGCU C UCCCUUCU	894	AGAAGGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAGCAA	16202
6800	GCUCUCU C CCUUCUCU	895	AGAGAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGCAGC	16203
6804	CUCUCCU U CUCUUGAU	896	AUCAAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGAGAG	16204
6805	UCUCCCU C UCUUGAUG	897	CAUCAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGGAGA	16205
6807	UCCCUUCU C UUGAUGAU	898	AUCAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAAGGGA	16206
6809	CCUUCUCU U GAUGAUUG	899	CAAUCAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGAAGG	16207
6816	UUGAUGAU U GUGCUAAU	900	AUUGACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCAUCAA	16208
6822	AUUGUGCU A AUUCCUGA	901	UCAGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCACAAU	16209
6825	GUGCUAAU U CCUGAGCC	902	GGCUCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUAGCAC	16210
6826	UGCUAUU C CUGAGCCA	903	UGGCUCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUUGACA	16211
6847	AGCAACGU U CGCAGACA	904	UGUCUGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGUUGCU	16212
6848	GCAACGU C GCAGACAG	905	CUGUCUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACGUUGC	16213
6867	AACCAGCU A GCCGUGUU	906	AACACGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUGGUU	16214
6875	AGCCGUGU U CCUGAUUU	907	AAAUACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACGGCU	16215
6876	GCCGUGUU C CUGAUUUG	908	CAAAUCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACACGGC	16216
6882	UUCUGAU U UGUGUCAU	909	AUGACACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCAGGAA	16217
6883	UCCUGAU U UGUGCAUG	910	CAUGACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUCAGGA	16218
6888	AUUUGUGU C AUGACCUU	911	AGGGUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACAAAU	16219
6897	AUGACCUU U GUGAGCGC	912	GCGCUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGUCAU	16220
6928	AGAUGGGU U GGUAGAU	913	AUCUAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCCAUCU	16221
6933	GUUUGGUU A GAUAAGAC	914	GUCUUAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCCAACC	16222
6937	GGCUAGAU A AGACCAAG	915	CUUGGUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCUAGCC	16223
6954	AGUGACAU A AGCAGUUU	916	AAACUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUCACU	16224
6961	UAAGCAGU U UGUUUGGG	917	CCCAAACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGCUUA	16225
6962	AAGCAGU U GUUUGGCG	918	GCCCAAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUCGUU	16226
6965	CAGUUUGU U UGGGCAA	919	UUUGCCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAAACUG	16227
6966	AGUUUGUU U GGGCAAAG	920	CUUUGCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACAAACU	16228
6978	CAAAGAAU U GAGGUCAA	921	UUGACCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUCUUUG	16229
6984	AUUGAGGU C AAGGAGAA	922	UUCUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUCAAU	16230
6994	AGGAGAAU U UCAGCAUG	923	CAUGCUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUCUCCU	16231
6995	GGAGAAUU U CAGCAUGG	924	CCAUGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUUCUCC	16232
6996	GAGAAUUU C AGCAUGGG	925	CCCAUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAUUCUC	16233
7010	GGGAGAGU U UCUUUUGG	926	CCAAAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCUCCC	16234
7011	GGAGAGUU U CUUUUGGA	927	UCCAAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUCUCC	16235
7012	GAGAGUUU C UUUUGGAC	928	GUCCAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAACUCUC	16236
7014	GAGUUUCU U UUGGACUU	929	AAGUCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAAACUC	16237
7015	AGUUUCUU U UGGACUUG	930	CAAGUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGAAACU	16238
7016	GUUUCUUU U GGACUUGA	931	UCAAGUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAGAAAC	16239
7022	UUUGGACU U GAGGCCCG	932	CCGGCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCCAAA	16240
7043	AGCCUGGU C ACUGUACG	933	CGUACAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAGGCU	16241
7049	GUCACUGU A CGCUGUGA	934	UCACAGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGUGAC	16242
7068	ACAGCGGU C CUCACUCC	935	GGAGUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCGUGU	16243
7071	GCGGUCCU C ACUCCACU	936	AGUGGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGACCGC	16244
7075	UCCUCACU C CACUGCUA	937	UAGCAGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGAGGA	16245
7083	CCACUGCU A AAGCAUUU	938	AAAUUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAGUGG	16246
7090	UAAAGCAU U UGAUCACG	939	CGUGAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCUUUA	16247
7091	AAAGCAUU U GAUCACGU	940	ACGUGAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUGCUUU	16248
7095	CAUUUGAU C ACGUCAGA	941	UCUGACGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCAAUUG	16249

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7100	GAUCACGU C AGAUUACA	942	UGUAAUCU CUGAUGAG	GCCGUUAGGC	CGAA ACUGAUC	16250
7105	CGUCAGAU U ACAUCAAC	943	GUUGAUGU CUGAUGAG	GCCGUUAGGC	CGAA AUCUGACG	16251
7106	GUCAGAUU A CAUCAACA	944	UGUUGAUG CUGAUGAG	GCCGUUAGGC	CGAA AAUCUGAC	16252
7110	GAUUACAU C AACACCUC	945	GAGGUGUU CUGAUGAG	GCCGUUAGGC	CGAA AUGUAAUC	16253
7118	CAACACCU C AUUGACCU	946	AGGUCAAU CUGAUGAG	GCCGUUAGGC	CGAA AGGUGUUG	16254
7121	CACCUCAU U GACCUCAA	947	UUGAGGUC CUGAUGAG	GCCGUUAGGC	CGAA AUGAGGUG	16255
7127	AUUGACCU C AAUAAACG	948	CGUUUAUU CUGAUGAG	GCCGUUAGGC	CGAA AGGUCAAU	16256
7131	ACCUCAAU A AACGUUCA	949	UGAACGUU CUGAUGAG	GCCGUUAGGC	CGAA AUUGAGGU	16257
7137	AUAAACGU U CAGGCAAG	950	CUUGCCUG CUGAUGAG	GCCGUUAGGC	CGAA ACGUUUUU	16258
7138	UAAACGUU C AGGCAAGU	951	ACUUGCCU CUGAUGAG	GCCGUUAGGC	CGAA AACGUUUA	16259
7152	AGUGCACU A UUCACACU	952	AGUGUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGCACU	16260
7154	UGCACUUA U CACACUCG	953	CGAGUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUAGUGCA	16261
7155	GCACUUAU C ACACUCGC	954	GCGAGUGU CUGAUGAG	GCCGUUAGGC	CGAA AAUAGUGC	16262
7161	UUCACACU C GCGCGAGG	955	CCUCGCGC CUGAUGAG	GCCGUUAGGC	CGAA AGUGUGAA	16263
7172	GCGAGGCU U CCCUUCG	956	CGAAGGGG CUGAUGAG	GCCGUUAGGC	CGAA AGCCUCGC	16264
7173	CGAGGCUU C CCCUUCGU	957	ACGAAGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGCCUCG	16265
7178	CUUCCCUU U CGUCGAUG	958	CAUCGAGC CUGAUGAG	GCCGUUAGGC	CGAA AGGGGAAG	16266
7179	UUCCCUU C GUCGAUGU	959	ACAUCGAC CUGAUGAG	GCCGUUAGGC	CGAA AAGGGGAA	16267
7182	CCCUUCGU C GAUGUUGG	960	CCAACAUC CUGAUGAG	GCCGUUAGGC	CGAA ACGAAGGG	16268
7188	GUCGAUGU U GGAGUGUC	961	GACACUCC CUGAUGAG	GCCGUUAGGC	CGAA ACAUCGAC	16269
7196	UGGAGUGU C GGCUCUCC	962	GGAGAGCC CUGAUGAG	GCCGUUAGGC	CGAA ACACUCCA	16270
7201	UGUCGGCU C UCCUGCUA	963	UAGCAGGA CUGAUGAG	GCCGUUAGGC	CGAA AGCCGACA	16271
7203	UCGGCUCU C CUGCUAGC	964	GCUAGCAG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCCGA	16272
7209	CUCUCGUU A GCAGCCGG	965	CCGGCUGC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGGAG	16273
7233	GGACAAGU C ACCUCAC	966	GUGAGGGU CUGAUGAG	GCCGUUAGGC	CGAA ACUUGUCC	16274
7239	GUCACCCU C ACCGUUAC	967	GUAACGGU CUGAUGAG	GCCGUUAGGC	CGAA AGGGUGAC	16275
7245	CUACCCGU U ACGGUAAC	968	GUUACCGU CUGAUGAG	GCCGUUAGGC	CGAA ACGGUGAG	16276
7246	UCACCGUU A CGGUAACA	969	UGUUACCG CUGAUGAG	GCCGUUAGGC	CGAA AACGGUGA	16277
7251	GUUACGGU A ACAGCGGC	970	GCCGCGU CUGAUGAG	GCCGUUAGGC	CGAA ACCGUAAC	16278
7266	GCAACACU C CUUUUUUG	971	CAAAAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUUGC	16279
7269	ACACUCCU U UUUUGCCA	972	UGGCAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGUGU	16280
7270	CACUCCUU U UUUGCCAC	973	GUGGCAAA CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGUG	16281
7271	ACUCCUUU U UUGCCACU	974	AGUGGCCA CUGAUGAG	GCCGUUAGGC	CGAA AAAGGAGU	16282
7272	CUCCUUUU U UGCCACUA	975	UAGUGGCA CUGAUGAG	GCCGUUAGGC	CGAA AAAAGGAG	16283
7273	UCCUUUUU U GCCACUUA	976	AUAGUGGC CUGAUGAG	GCCGUUAGGC	CGAA AAAAAGGA	16284
7280	UUGCCACU A UGCCUACA	977	UGUAGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGUGGCAA	16285
7286	CUAUGCCU A CAUGGUUC	978	GAACCAUG CUGAUGAG	GCCGUUAGGC	CGAA AGGCAUAG	16286
7293	UACAUGGU U CCCGGUUG	979	CAACCGGG CUGAUGAG	GCCGUUAGGC	CGAA ACCAUGUA	16287
7294	ACAUGGUU C CCGGUUGG	980	CCAACCGG CUGAUGAG	GCCGUUAGGC	CGAA AACCAGUU	16288
7300	UUCGCGU U GGCAAGCU	981	AGCUUGCC CUGAUGAG	GCCGUUAGGC	CGAA ACCGGGAA	16289
7322	AAUGCGCU C AGCCCAGC	982	GCUGGGCU CUGAUGAG	GCCGUUAGGC	CGAA AGCGCAUU	16290
7350	GCCGGAAU C AUGAAGAA	983	UUCUUAU CUGAUGAG	GCCGUUAGGC	CGAA AUUCCGGC	16291
7365	AACGCUGU A GUGGAUGG	984	CCAUCCAC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCGUU	16292
7377	GAUGGCAU C GUGGCCAC	985	GUGGCCAC CUGAUGAG	GCCGUUAGGC	CGAA AUGCCAUC	16293
7392	ACGGACGU C CCAGAAUU	986	AAUUCUGG CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCGU	16294
7400	CCCAGAAU U AGAGCGCA	987	UGCGCUCU CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGGG	16295
7401	CCAGAAUU A GAGCGCAC	988	GUGCGCUC CUGAUGAG	GCCGUUAGGC	CGAA AAUUCUGG	16296
7419	ACACCCAU C AUGCAGAA	989	UUCUGCAU CUGAUGAG	GCCGUUAGGC	CGAA AUGGGUGU	16297
7434	AAGAAAGU U GGACAGAU	990	AUCUGUCC CUGAUGAG	GCCGUUAGGC	CGAA ACUUUCUU	16298
7443	GGACAGAU C AUGCUGAU	991	AUCAGCAU CUGAUGAG	GCCGUUAGGC	CGAA AUCUGUCC	16299
7452	AUGCUGAU C UUGGUGUC	992	GACACCAA CUGAUGAG	GCCGUUAGGC	CGAA AUCAGCAU	16300
7454	GCUGAUCU U GGUGUCUC	993	GAGACACC CUGAUGAG	GCCGUUAGGC	CGAA AGAUCAGC	16301
7460	CUUGGUGU C UCUAGCUG	994	CAGCUAGA CUGAUGAG	GCCGUUAGGC	CGAA ACACCAAG	16302
7462	UGGUGUCU C UAGCUGCA	995	UGCAGCUA CUGAUGAG	GCCGUUAGGC	CGAA AGACACCA	16303
7464	GUGUCUCU A GCUGCAGU	996	ACUGCAGC CUGAUGAG	GCCGUUAGGC	CGAA AGAGACAC	16304
7473	GCUGCAGU A GUAGUGAA	997	UUCACUAC CUGAUGAG	GCCGUUAGGC	CGAA ACUGCAGC	16305
7476	GCAGUAGU A GUGAACCC	998	GGGUUCAC CUGAUGAG	GCCGUUAGGC	CGAA ACUACUGC	16306
7487	GAACCCGU C UGUGAAGA	999	UCUUCACA CUGAUGAG	GCCGUUAGGC	CGAA ACGGGUUC	16307
7500	AAGACAGU A CGAGAAGC	1000	GCUUCUCG CUGAUGAG	GCCGUUAGGC	CGAA ACUGUCUU	16308
7515	GCCGGAAU U UUGAUCAC	1001	GUGAUCAA CUGAUGAG	GCCGUUAGGC	CGAA AUUCCGGC	16309
7516	CCGGAAUU U UGAUCACG	1002	CGUGAUCA CUGAUGAG	GCCGUUAGGC	CGAA AAUCCGGG	16310
7517	CGGAAUUU U GAUCACGG	1003	CCGUGAUC CUGAUGAG	GCCGUUAGGC	CGAA AAAUCCGG	16311
7521	AUUUUGAU C ACGGCCGC	1004	GCGGCCGU CUGAUGAG	GCCGUUAGGC	CGAA AUCAAAAU	16312

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7542	GUGACGCU U UGGGAGAA	1005	UUCUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AGCGUCAC	16313
7543	UGACGCUU U GGGAGAAU	1006	AUUCUCCC CUGAUGAG	GCCGUUAGGC	CGAA AAGCGUCA	16314
7562	AGCAAGCU C UGUUUGGA	1007	UCCAAACA CUGAUGAG	GCCGUUAGGC	CGAA AGCUUGCU	16315
7566	AGCUCUGU U UGGAACGC	1008	GCGUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACAGAGCU	16316
7567	GCUCUGUU U GGAACGCA	1009	UGCGUCC CUGAUGAG	GCCGUUAGGC	CGAA AACAGAGC	16317
7587	ACUGCCAU C GGACUCUG	1010	CAGAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AUGGCAGU	16318
7593	AUCGGACU C UGCCACAU	1011	AUGUGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGUCCGAU	16319
7602	UGCCACAU C AUGCGUGG	1012	CCACGCAU CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGCA	16320
7615	GUGGGGUU U GGUUGUCA	1013	UGACAACC CUGAUGAG	GCCGUUAGGC	CGAA ACCCCAC	16321
7619	GGGUUGGU U GUCAUGUC	1014	GACAUGAC CUGAUGAG	GCCGUUAGGC	CGAA ACCAACCC	16322
7622	UUGGUUGU C AUGUCUAU	1015	AUAGACAU CUGAUGAG	GCCGUUAGGC	CGAA ACAACCAA	16323
7627	UGUCAUGU C UAUCCAUA	1016	UAUGGAUA CUGAUGAG	GCCGUUAGGC	CGAA ACAUGACA	16324
7629	UCAUGUCU A UCCAUAAC	1017	GUUAUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGACAUGA	16325
7631	AUGUCUAU C CAUAACAU	1018	AUGUUAUG CUGAUGAG	GCCGUUAGGC	CGAA AUAGACAU	16326
7635	CUAUCCA U ACAUGGAC	1019	GUCCAUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUAG	16327
7647	UGGACACU C AUAAGAA	1020	UUCUUUAU CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCCA	16328
7650	ACACUCAU A AAGAACAU	1021	AUGUUCUU CUGAUGAG	GCCGUUAGGC	CGAA AUGAGUGU	16329
7674	CCAGGACU A AAAAGAGG	1022	CCUCUUUU CUGAUGAG	GCCGUUAGGC	CGAA AGUCCUGG	16330
7703	ACGCACCU U GGGAGAGG	1023	CCUCUCCC CUGAUGAG	GCCGUUAGGC	CGAA AGGUGCGU	16331
7713	GGAGAGGU U UGGAAGAA	1024	UCUUUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACCUCUCC	16332
7714	GAGAGGUU U GGAAAGAA	1025	UUCUUUCC CUGAUGAG	GCCGUUAGGC	CGAA AACCUCUC	16333
7728	GAAAGACU C AACCAGAU	1026	AUCUGGUU CUGAUGAG	GCCGUUAGGC	CGAA AGUCUUUC	16334
7751	AGAAGAGU U CACUAGGU	1027	ACCUAGUG CUGAUGAG	GCCGUUAGGC	CGAA ACUCUUUC	16335
7752	GAAGAGUU C ACUAGGUA	1028	UACCUAGU CUGAUGAG	GCCGUUAGGC	CGAA AACUCUUC	16336
7756	AGUUCACU A GGUACCGC	1029	GCGUACC CUGAUGAG	GCCGUUAGGC	CGAA AGUGAACU	16337
7760	CACUAGGU A CCGCAAAG	1030	CUUUGCGG CUGAUGAG	GCCGUUAGGC	CGAA ACCUAGUG	16338
7776	GAGGCCAU C AUCGAAGU	1031	ACUUCGAU CUGAUGAG	GCCGUUAGGC	CGAA AUGGCCUC	16339
7779	GCCAUCAU C GAAGUCGA	1032	UCGACUUC CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGGC	16340
7785	AUCGAAGU C GAUCGCUC	1033	GAGCGAUC CUGAUGAG	GCCGUUAGGC	CGAA ACUUCGAU	16341
7789	AAGUCGAU C GCUCAGCG	1034	CGCUGAGC CUGAUGAG	GCCGUUAGGC	CGAA AUCGACUU	16342
7793	CGAUCGCU C AGCGGCAA	1035	UUGCCGCU CUGAUGAG	GCCGUUAGGC	CGAA AGCGAUCG	16343
7827	GGCAAGUU C ACUGGAGG	1036	CCUCCAGU CUGAUGAG	GCCGUUAGGC	CGAA AACAUGCC	16344
7840	GAGGCAU C CAGUCUCU	1037	AGAGACUG CUGAUGAG	GCCGUUAGGC	CGAA AUGCCUUC	16345
7845	CAUCCAGU C UCUAGGGG	1038	CCCCUAGA CUGAUGAG	GCCGUUAGGC	CGAA ACUGGAUG	16346
7847	UCCAGUCU C UAGGGGCA	1039	UGCCCCUA CUGAUGAG	GCCGUUAGGC	CGAA AGACUGGA	16347
7849	CAGUCUCU A GGGGCACA	1040	UGUGCCCC CUGAUGAG	GCCGUUAGGC	CGAA AGAGACUG	16348
7878	UGGCUUGU C GAACGGAG	1041	CUCCGUUC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGCCA	16349
7889	ACGGAGGU U UCUCGAAC	1042	GUUCGAGA CUGAUGAG	GCCGUUAGGC	CGAA ACCUCCGU	16350
7890	CGGAGGUU U CUCGAACC	1043	GGUCCGAG CUGAUGAG	GCCGUUAGGC	CGAA AACUCCG	16351
7891	GGAGGUUU C UCGAACCG	1044	CGGUUGCA CUGAUGAG	GCCGUUAGGC	CGAA AAACUCC	16352
7893	AGGUUUUU C GAACCGGU	1045	ACCGGUUC CUGAUGAG	GCCGUUAGGC	CGAA AGAAACCU	16353
7902	GAACCGGU C GGAAAAGU	1046	ACUUUUCC CUGAUGAG	GCCGUUAGGC	CGAA ACCGGUUC	16354
7914	AAAGUGAU U GACCUUGG	1047	CCAAGGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCACUUU	16355
7920	AUUGACCU U GGAUGUGG	1048	CCACAUC CUGAUGAG	GCCGUUAGGC	CGAA AGGUCAAU	16356
7939	GAGGCGGU U GGUUUUAC	1049	GUAAACCC CUGAUGAG	GCCGUUAGGC	CGAA ACCGCCUC	16357
7945	GUUGGUGU U ACUAUAUG	1050	CAUAUAGU CUGAUGAG	GCCGUUAGGC	CGAA ACACCAAC	16358
7946	UUGGUGUU A CUUAUUGG	1051	CCAUAUAG CUGAUGAG	GCCGUUAGGC	CGAA AACACCAA	16359
7949	GUGUUACU A UAUGGCAA	1052	UUGCCAUA CUGAUGAG	GCCGUUAGGC	CGAA AGUAACAC	16360
7951	GUUACUAU A UGGCAACC	1053	GGUUGCCA CUGAUGAG	GCCGUUAGGC	CGAA AUAGUAAC	16361
7971	AAAAGAGU C CAAGAAGU	1054	ACUUCUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUCUUUU	16362
7980	CAAGAGU C AGAGGGUA	1055	UACCCUCU CUGAUGAG	GCCGUUAGGC	CGAA ACUCUUG	16363
7988	CAGAGGU A CACAAAGG	1056	CCUUUGUG CUGAUGAG	GCCGUUAGGC	CGAA ACCUCUG	16364
8002	AGGGCGGU C CCGGACAU	1057	AUGUCCGG CUGAUGAG	GCCGUUAGGC	CGAA ACCGCCCU	16365
8025	CCCCAACU A GUGCAAAG	1058	CUUUGCA CUGAUGAG	GCCGUUAGGC	CGAA AGUUGGG	16366
8035	UGCAAAGU U AUGGAUGG	1059	CCAUGCAU CUGAUGAG	GCCGUUAGGC	CGAA ACUUUGCA	16367
8036	GCAAAGUU A UGGAUGGA	1060	UCCAUGCA CUGAUGAG	GCCGUUAGGC	CGAA AACUUUGC	16368
8049	UGGAACAU U GUCACCAU	1061	AUGGUGAC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCCA	16369
8052	AACAUUGU C ACCAUGAA	1062	UUCAUGGU CUGAUGAG	GCCGUUAGGC	CGAA ACAUUGU	16370
8078	GGAUGUGU U CUACAGAC	1063	GUUCUGAG CUGAUGAG	GCCGUUAGGC	CGAA ACACAUC	16371
8079	GAUGUGUU C UACAGACC	1064	GUUCUGUA CUGAUGAG	GCCGUUAGGC	CGAA AACACAUC	16372
8081	UGUGUUCU A CAGACCUU	1065	AAGGUCUG CUGAUGAG	GCCGUUAGGC	CGAA AGAACACA	16373
8089	ACAGACCU U CUGAGUGU	1066	ACACUCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGUCUGU	16374
8090	CAGACCUU C UGAGUGUU	1067	AACACUCA CUGAUGAG	GCCGUUAGGC	CGAA AAGGUCUG	16375

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8098	CUGAGUGU U GUGACACC	1068	GGUGUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACUCAG	16376
8109	GACACCCU C CUUUGUGA	1069	UCACAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGUGUC	16377
8112	ACCCUCCU U UGUGACAU	1070	AUGUCACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGAGGGU	16378
8113	CCCUCCUU U GUGACAUC	1071	GAUGUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGAGGG	16379
8121	UGUGACAU C GGAGAGUC	1072	GACUCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUCACA	16380
8129	CGGAGAGU C CUCGUCAA	1073	UUGACGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCUCCG	16381
8132	AGAGUCCU C GUCAAGUG	1074	CACUUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGACUCU	16382
8135	GUCCUCGU C AAGUGCUG	1075	CAGCACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCGAGAC	16383
8148	GCUGAGGU U GAAGAGCA	1076	UGCUCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUCAGC	16384
8158	AAGAGCAU A GGACGAUU	1077	AAUCGUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUCUUU	16385
8166	AGGACGAU U CGGGUCCU	1078	AGGACCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCGUCCU	16386
8167	GGACGAUU C GGGUCCUU	1079	AAGGACCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUCGUCC	16387
8172	AUUCGGGU C CUUGAAAU	1080	AUUUCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCCGAAU	16388
8175	CGGGUCCU U GAAAUUGU	1081	ACCAUUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGACCCG	16389
8184	GAAAUUGU U GAGGACUG	1082	CAGUCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAUUUC	16390
8216	AAGGGAUU U UUGCGUGA	1083	UACGCGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUCCCUU	16391
8217	AGGGAUUU U UGCGUGAA	1084	UUCACGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUCCCUU	16392
8218	GGGAUUUU U GCGUGAAG	1085	CUUCACGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAUCCCU	16393
8232	AAGGUGCU C UGCCCCUA	1086	UAGGGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCACCUU	16394
8240	CUGCCCCU A CAUGCCGA	1087	UCGGCAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGGCAG	16395
8253	CCGAAAGU C AUAGAGAA	1088	UUCUCUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUUCGG	16396
8256	AAAGUCAU A GAGAAGAU	1089	AUCUUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGACUUU	16397
8274	GAGCUGCU C CAACGCCG	1090	CGGCGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAGCUC	16398
8285	ACGCCGGU A UGGGGGGG	1091	CCCCCCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCGCCGU	16399
8301	GGACUGGU C AGAAACCC	1092	GGGUUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAGUCC	16400
8313	AACCCACU C UCACGGAA	1093	UUCCGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGGGUU	16401
8315	CCCACUCU C ACGGAAUU	1094	AAUUCCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGUGGG	16402
8323	CACGGAUU U CCACGCAC	1095	GUGCGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUCCGUG	16403
8324	ACGGAUUU C CACGCACG	1096	CGUGCGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUUCCGU	16404
8339	CGAGAUGU A UUGGGUGA	1097	UCACCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUCUCG	16405
8341	AGAUGUAU U GGGUGAGU	1098	ACUCACCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUACAUCU	16406
8350	GGUGAGU C GAGCUUCA	1099	UGAAGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCACCC	16407
8356	GUCGAGCU U CAGGCAAU	1100	AUUGCCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUCGAC	16408
8357	UCGAGCUU C AGGCAUUG	1101	CAUUGCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCUCGA	16409
8370	AAUGUGGU A CAUUCAGU	1102	ACUGAAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCACAUU	16410
8374	UGGUACAU U CAGUGAAU	1103	AUUCACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUACCA	16411
8375	GGUACAUU C AGUGAAUA	1104	UAUUCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUGUACC	16412
8383	CAGUGAAU A UGACCAGC	1105	GCUGGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUCACUG	16413
8400	CAGGUGCU C CUAGGAAG	1106	CUUCCUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCACCUU	16414
8403	GUGUCUCC A GGAAGAAU	1107	AUUCUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGAGCAC	16415
8441	ACCCCAAU A CGAGGAAG	1108	CUUCCUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGGGGU	16416
8454	GAAGAUGU A AACUUGGG	1109	CCCAAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUCUUC	16417
8459	UGUAAACU U GGAAGUG	1110	CACUUCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUUACA	16418
8496	CCCCUGCU C AACUCAGA	1111	UCUGAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAGGGG	16419
8501	GCUCAACU C AGACACCA	1112	UGGUGUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUGAGC	16420
8512	ACACCAGU A AAUUAAG	1113	CUUGAUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGGUGU	16421
8517	AGUAAAAU C AAGAACAG	1114	CUGUUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUUUACU	16422
8529	AACAGGAU A GAACGACU	1115	AGUCGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCUGUU	16423
8538	GAACGACU C AGGCGUGA	1116	UCACGCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCGUUC	16424
8549	GCGUGAGU A CAGUUCGA	1117	UCGAACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCACGC	16425
8554	AGUACAGU U CGACGUGG	1118	CCACGUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGUACU	16426
8555	GUACAGUU C GACGUGGC	1119	GCCACGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUGUAC	16427
8585	CCACCAAU A UAGAACCU	1120	AGGUUCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGGUGG	16428
8587	ACCCAUAU A GAACUUGG	1121	CCAGGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAUGGGU	16429
8600	CUGGAACU A UCACGGCA	1122	UGCCGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCCAG	16430
8602	GGAAACUAU C ACGGCAGU	1123	ACUGCCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUUGUCC	16431
8611	ACGGCAGU U AUGAUGUG	1124	CACAUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGCCGU	16432
8612	CGGCAGUU A UGAUGUGA	1125	UCACAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUGCCG	16433
8633	CACAGGCU C CGCCAGUU	1126	AACUGGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCCUGUG	16434
8641	CCGCCAGU U CGCUGGUC	1127	GACCAGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGGCCG	16435
8642	CGCCAGUU C GUGGUUCA	1128	UGACCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUGGCC	16436
8649	UCGUGGUU C AAUGGAGU	1129	ACUCCAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAGCGA	16437
8661	GGAGUGGU C AGGCUCU	1130	AGGAGCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCACUCC	16438

Table III

8667	GUCAGGCU C CUCUCAA	1131	UUUGAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGCCUGAC	16439
8670	AGGCUCCU C UCAAAACC	1132	GGUUUUGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCCU	16440
8672	GCUCUCU C AAAACCAU	1133	AUGGUUUU CUGAUGAG	GCCGUUAGGC	CGAA AGAGGAGC	16441
8691	GACACCAU C ACGAAUGU	1134	ACAUUCGU CUGAUGAG	GCCGUUAGGC	CGAA AUGGUGUC	16442
8700	ACGAAUGU U ACCACCAU	1135	AUGGUGGU CUGAUGAG	GCCGUUAGGC	CGAA ACAUUCGU	16443
8701	CGAUGUU A CCACCAUG	1136	CAUGGUGG CUGAUGAG	GCCGUUAGGC	CGAA AACAUUCG	16444
8725	CUGACACU A CUCCCUUC	1137	GAAGGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCAG	16445
8728	ACACUACU C CCUUCGGG	1138	CCCGAAGG CUGAUGAG	GCCGUUAGGC	CGAA AGUAGUGU	16446
8732	UACUCCU U CGGGCAGC	1139	GCUGCCCG CUGAUGAG	GCCGUUAGGC	CGAA AGGGAGUA	16447
8733	ACUCCCU C GGGCAGCA	1140	UGCUGCCC CUGAUGAG	GCCGUUAGGC	CGAA AAGGGAGU	16448
8750	GCGAGUGU U CAAAGAGA	1141	UCUCUUUG CUGAUGAG	GCCGUUAGGC	CGAA ACACUCGC	16449
8751	CGAGUGUU C AAAGAGAA	1142	UUCUCUUU CUGAUGAG	GCCGUUAGGC	CGAA AACACUCG	16450
8776	CGAAAGCU C CUGAACCG	1143	CGGUUCAG CUGAUGAG	GCCGUUAGGC	CGAA AGCUUUCG	16451
8801	AGUGAAGU A CGUGCUC	1144	UGAGCACG CUGAUGAG	GCCGUUAGGC	CGAA ACUUCACU	16452
8808	UACGUGCU C AAUGAGAC	1145	GUCUCAUU CUGAUGAG	GCCGUUAGGC	CGAA AGCACGUA	16453
8828	CAACUGGU U GUGGGCGU	1146	ACGCCCAC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGUUG	16454
8837	UGGGGCGU U UUGGCCA	1147	UGGCCAAA CUGAUGAG	GCCGUUAGGC	CGAA ACGCCAC	16455
8838	UGGGCGUU U UUGGCCAG	1148	CUGGCCAA CUGAUGAG	GCCGUUAGGC	CGAA AACGCCCA	16456
8839	GGGCGUUU U UGGCCAGA	1149	UCUGGCCA CUGAUGAG	GCCGUUAGGC	CGAA AAACGCC	16457
8840	GGCGUUUU U GGCCAGAG	1150	CUCUGGCC CUGAUGAG	GCCGUUAGGC	CGAA AAAACGCC	16458
8857	AAAAACGU C CCAGAAUG	1151	CAUUCUGG CUGAUGAG	GCCGUUAGGC	CGAA ACGUUUUU	16459
8870	AAUGUGCU C UCGAGAGG	1152	CCUCUCGA CUGAUGAG	GCCGUUAGGC	CGAA AGCACAUU	16460
8872	UGUGCUCU C GAGAGGAA	1153	UUCUCUC CUGAUGAG	GCCGUUAGGC	CGAA AGAGCACA	16461
8882	AGAGGAUU U CAUAAGAA	1154	UUCUUAUG CUGAUGAG	GCCGUUAGGC	CGAA AUUCCUCU	16462
8883	GAGGAUU C AUAAGAAA	1155	UUUCUUAU CUGAUGAG	GCCGUUAGGC	CGAA AAUCCUC	16463
8886	GAAUUCAU A AGAAAGGU	1156	ACCUUUCU CUGAUGAG	GCCGUUAGGC	CGAA AUGAAUUC	16464
8895	AGAAAGGU C AACAGCAA	1157	UUGCUGUU CUGAUGAG	GCCGUUAGGC	CGAA ACCUUUCU	16465
8911	AUGCAGCU U UGGUGGCC	1158	GGCACCCA CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCAU	16466
8912	UGCAGCUU U GGGUGCCA	1159	UGGCACCC CUGAUGAG	GCCGUUAGGC	CGAA AAGCUGCA	16467
8924	UGCCAUGU U UGAAGAGC	1160	GCUCUUC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGCA	16468
8925	GCCAUGUU U GAAGAGCA	1161	UGCUCUUC CUGAUGAG	GCCGUUAGGC	CGAA AACAUUGC	16469
8938	AGCAGAAU C AAUGGAGG	1162	CCUCCAUU CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGCU	16470
8964	GAAGCAGU U GAAGAUC	1163	GGACUUC CUGAUGAG	GCCGUUAGGC	CGAA ACUGCUUC	16471
8971	UUGAAGAU C CAAAUUU	1164	AAAUUUUG CUGAUGAG	GCCGUUAGGC	CGAA AUCUCAA	16472
8978	UCCAAAUU U UUGGGAGA	1165	UCUCCCAA CUGAUGAG	GCCGUUAGGC	CGAA AUUUUGGA	16473
8979	CCAAAUUU U UGGGAGAU	1166	AUCUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUUUUGG	16474
8980	CAAAAUUU U GGGAGAU	1167	CAUCUCCC CUGAUGAG	GCCGUUAGGC	CGAA AAAUUUUG	16475
9013	AGGCACAU C UGCGGGG	1168	CCCCCGCA CUGAUGAG	GCCGUUAGGC	CGAA AUGUGCCU	16476
9028	GGGAUGU C ACACUUGC	1169	GCAAGUGU CUGAUGAG	GCCGUUAGGC	CGAA ACAUUCU	16477
9034	GUCACACU U GCAUUUAC	1170	GUAAAUUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUGAC	16478
9039	ACUUGCAU U UACAACAU	1171	AUGUUGUA CUGAUGAG	GCCGUUAGGC	CGAA AUGCAAGU	16479
9040	CUUGCAUU U ACAACAUG	1172	CAUGUUGU CUGAUGAG	GCCGUUAGGC	CGAA AAUGCAAG	16480
9041	UUGCAUUU A CAACAUGA	1173	UCAUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AAAUGCAA	16481
9080	CGGAGAGU U CGGAAAGG	1174	CCUUUCCG CUGAUGAG	GCCGUUAGGC	CGAA ACUCUCCG	16482
9081	GGAGAGUU C GGAAAGGC	1175	GCCUUUCC CUGAUGAG	GCCGUUAGGC	CGAA AACUCUCC	16483
9108	AGAGCCAU U UGGUUCAU	1176	AUGAACCA CUGAUGAG	GCCGUUAGGC	CGAA AUGGCUCU	16484
9109	GAGCCAUU U GGUUCAUG	1177	CAUGAAC CUGAUGAG	GCCGUUAGGC	CGAA AAUGGCUC	16485
9113	CAUUUGGU U CAUGUGGC	1178	GCCACAU CUGAUGAG	GCCGUUAGGC	CGAA ACCAAUUG	16486
9114	AUUUGGUU C AUGUGGCU	1179	AGCCACAU CUGAUGAG	GCCGUUAGGC	CGAA AACCAAU	16487
9123	AUGUGGCU C GGAGCUCG	1180	CGAGCUC CUGAUGAG	GCCGUUAGGC	CGAA AGCCACAU	16488
9130	UCGGAGCU C GCUUUCUG	1181	CAGAAAGC CUGAUGAG	GCCGUUAGGC	CGAA AGCUCGCA	16489
9134	AGCUCGCU U UCUGGAGU	1182	ACUCCAGA CUGAUGAG	GCCGUUAGGC	CGAA AGCGAGCU	16490
9135	GCUCGCUU U CUGGAGUU	1183	AACUCCAG CUGAUGAG	GCCGUUAGGC	CGAA AAGCGAGC	16491
9136	CUCGCUUU C UGGAGUUC	1184	GAACUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAAGCGAG	16492
9143	UCUGGAGU U CGAGGCUC	1185	GAGCCUC CUGAUGAG	GCCGUUAGGC	CGAA ACUCCAGA	16493
9144	CUGGAGUU C GAGGCUCU	1186	AGAGCCUC CUGAUGAG	GCCGUUAGGC	CGAA AACUCAG	16494
9151	UCGAGGCU C UGGGUUUU	1187	AAAACCCA CUGAUGAG	GCCGUUAGGC	CGAA AGCCUCGA	16495
9157	CUCUGGGU U UUCUCAU	1188	AUUGAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACCCAGAG	16496
9158	UCUGGGUU U UCUCAAUG	1189	CAUUGAGA CUGAUGAG	GCCGUUAGGC	CGAA AACCCAGA	16497
9159	CUGGGUUU U CUCAAUGA	1190	UCAUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AAACCCAG	16498
9160	UGGGUUUU C UCAAUGAA	1191	UUCAUUGA CUGAUGAG	GCCGUUAGGC	CGAA AAAACCCA	16499
9162	GGUUUUUU C AAUGAAGA	1192	UCUUCAUU CUGAUGAG	GCCGUUAGGC	CGAA AGAAACC	16500
9180	CACUGGCU U GGAAGAAA	1193	UUUCUUC CUGAUGAG	GCCGUUAGGC	CGAA AGCCAGUG	16501

Table III

9194	AAAGAACU C AGGAGGAG	1194	CUCUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUCUUU	16502
9207	GGAGGUGU C GAGGGCUU	1195	AAGCCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACCUCC	16503
9215	CGAGGGCU U GGGCCUCC	1196	GGAGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCCCUCC	16504
9222	UUGGGCCU C CAAAAACU	1197	AGUUUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGCCCAA	16505
9235	AACUGGGU U ACAUCCUG	1198	CAGGAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCCAGUU	16506
9236	ACUGGGUU A CAUCCUGC	1199	GCAGGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCCAGU	16507
9240	GGUUAACU C CUGCGUGA	1200	UCACGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUAACC	16508
9252	CGUGAAGU U GGCACCCG	1201	CGGGUGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUCACG	16509
9276	GGCAAGAU C UAUGCUGA	1202	UCAGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCUUGCC	16510
9278	CAAGAUCU A UGCUGAUG	1203	CAUCAGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAUCUUG	16511
9312	ACCCGCAU C ACGAGAGC	1204	GCUCUCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCGGGU	16512
9326	AGCUGACU U GGAAAAG	1205	CAUUUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCAGCU	16513
9340	AUGAAGCU A AGGUGCUU	1206	AAGCACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUUCAU	16514
9348	AAGGUGCU U GAGCUGCU	1207	AGCAGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCACCUC	16515
9357	GAGCUGCU U GAUGGGGA	1208	UCCCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAGCUC	16516
9370	GGGAACAU C GGCUCUUG	1209	AAGACGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUUCUC	16517
9376	AUCGGCGU C UUGCCAGG	1210	CCUGGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGCCGAU	16518
9378	CGGCGUCU U GCCAGGGC	1211	GCCCUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGACGCCG	16519
9390	AGGGCCAU C AUGAGACU	1212	AGCUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGCCCU	16520
9393	GCCAUCAU U GAGCUCAC	1213	GUGAGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGAUGGC	16521
9399	AUGAGACU C ACCUAUCG	1214	CGAUAGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUCAAU	16522
9404	GCUCACCU A UCGUCACA	1215	UGUGACGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUGAGC	16523
9406	UCACCUAU C GUCACAAA	1216	UUUGUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAGGUGA	16524
9409	CCUAUCGU C ACAAAGUU	1217	AACUUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGAUAGG	16525
9417	CACAAAGU U GUGAAAGU	1218	ACUUUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUUGUG	16526
9456	AGAACCGU C AUGGAUGU	1219	ACAUCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGGUTUC	16527
9465	AUGGAUGU U AUCUCCAG	1220	CUGGAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUCCAU	16528
9466	UGGAUGUU A UCUCAGA	1221	UCUGGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACAUCCA	16529
9468	GAUGUUAU C UCCAGAGA	1222	UCUCUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAACAUC	16530
9470	UGUUAUCU C CAGAGAAG	1223	CUUCUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAUAACA	16531
9481	GAGAAGAU C AGAGGGGG	1224	CCCCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCUUCUC	16532
9501	GGACAAGU U GUCACCUA	1225	UAGGUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUGUCC	16533
9504	CAAGUUGU C ACCUACGC	1226	GCGUAGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAACUUG	16534
9509	UGUCACCU A CGCCCUAA	1227	UUAGGGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUGACA	16535
9516	UACGCCCU A AACACUUU	1228	AAAGUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGCGUA	16536
9523	UAAACACU U UCACCAAC	1229	GUUGGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGUUUA	16537
9524	AAACACUU U CACCAACC	1230	GGUUGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGUGUUU	16538
9525	AACACUUU C ACCAACCU	1231	AGGUUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAGUGUU	16539
9540	CUGGCCGU C CAGCUGGU	1232	ACCAGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGGCCAG	16540
9576	GGAGUGAU U GGCCAGAG	1233	UCUGGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCAUCC	16541
9600	GAGAAACU C ACAAAGG	1234	CCUUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUUCUC	16542
9624	CCCAAAGU C AGGACCUG	1235	CAGGUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUUGGG	16543
9638	CUGGCUGU U UGAGAAUG	1236	CAUUCUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGCCAG	16544
9639	UGGCUGUU U GAGAAUGG	1237	CCAUUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACAGCCA	16545
9660	GAAAGACU C AGCCGCAU	1238	AUGCGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCUUUC	16546
9675	AUGGCUGU C AGUGGAGA	1239	UCUCCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGCCAU	16547
9696	UGUGUGGU A AAGCCCUU	1240	AGGGGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCACACA	16548
9712	UGGACGAU C GCUUUGCC	1241	GGCAAAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCGUCCA	16549
9716	CGAUCGCU U UGCCACCU	1242	AGGUGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCGAUCG	16550
9717	GAUCGCUU U GCCACCUC	1243	GAGGUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCGAUC	16551
9725	UGCCACCU C GCUCCACU	1244	AGUGGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUGGCA	16552
9729	ACCUCGCU C CACUCCU	1245	AGGAAGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCGAGGU	16553
9734	GCUCCACU U CCUCAAUG	1246	CAUUGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGGAGC	16554
9735	CUCCACUU C CUCAAUGC	1247	GCAUUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGUGGAG	16555
9738	CACUCCU C AAUGCUAU	1248	AUAGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGAAGUG	16556
9745	UCAAUGCU A UGUCAAAG	1249	CUUUGACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAUUGA	16557
9749	UGCUAUGU C AAAGGUUC	1250	GAACCUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUAGCA	16558
9756	UCAAGGU U CGCAAAGA	1251	UCUUUGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUUUGA	16559
9757	CAAAGGUU C GCAAAGAC	1252	GUCUUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCUUUG	16560
9768	AAAGACAU C CAAGAGUG	1253	CACUCUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUCUUU	16561
9785	GAAACCGU C AACUGGAU	1254	AUCCAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGGUUUC	16562
9797	UGGAUGGU A UGAUUGGC	1255	GCCAAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAUCCA	16563
9802	GGUAUGAU U GGCAGCAG	1256	CUCGUGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCAUACC	16564

Table III

9813	CAGCAGGU U CCAUUUUG	1257	CAAAUUGG CUGAUGAG	GCCGUUAGGC	CGAA ACCUGCUG	16565
9814	AGCAGGUU C CAUUUUGC	1258	GCAAAUUG CUGAUGAG	GCCGUUAGGC	CGAA AACUGCUU	16566
9818	GUUCCAUU U UUGCUCAA	1259	UUGAGCAA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAACC	16567
9819	GUUCCAUU U UGCUCAAA	1260	UUUGAGCA CUGAUGAG	GCCGUUAGGC	CGAA AAUGGAAC	16568
9820	UUCCAUUU U GCUCAAAC	1261	GUUUGAGC CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGAA	16569
9824	AUUUUUGU C AAACCAUU	1262	AAUGGUUU CUGAUGAG	GCCGUUAGGC	CGAA AGCAAAAU	16570
9832	CAAAACCAU U UCACUGAA	1263	UUCAGUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGUUUG	16571
9833	AAACCAUU U CACUGAAU	1264	AUUCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGUU	16572
9834	AACCAUUU C ACUGAAUU	1265	AAUUCAGU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGUU	16573
9842	CACUGAAU U GAUCAUGA	1266	UCAUGAUC CUGAUGAG	GCCGUUAGGC	CGAA AUUCAGUG	16574
9846	GAUUGAUU C AUGAAAGA	1267	UCUUUUAU CUGAUGAG	GCCGUUAGGC	CGAA AUCAAUUC	16575
9873	CUGUGUGU U CCAUGCCG	1268	CGGCAUGG CUGAUGAG	GCCGUUAGGC	CGAA ACCACCAG	16576
9874	UGUGUGUU C CAUGCCGA	1269	UCGGCAUG CUGAUGAG	GCCGUUAGGC	CGAA AACCCACA	16577
9896	GAUUGAUU U GGUAGGCA	1270	UGGCUUAC CUGAUGAG	GCCGUUAGGC	CGAA AUUCAUCC	16578
9900	GAUUGGUU A GGCAGAGC	1271	GCUCUGCC CUGAUGAG	GCCGUUAGGC	CGAA ACCAAUUC	16579
9910	GCAGAGCU C GCAUAUCU	1272	AGAUUAGC CUGAUGAG	GCCGUUAGGC	CGAA AGCUCUGC	16580
9915	GCUCGCAU A UCUCAGG	1273	CCUGGAGA CUGAUGAG	GCCGUUAGGC	CGAA AUGCGAGC	16581
9917	UCGCAUUA C UCCAGGGG	1274	CCCCUGGA CUGAUGAG	GCCGUUAGGC	CGAA AUUUGCGA	16582
9919	GCAUUAUC C CAGGGGCC	1275	GGCCCCUG CUGAUGAG	GCCGUUAGGC	CGAA AGAUUAGC	16583
9939	UGGAACGU C CGGACAC	1276	GUGUCGCG CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCA	16584
9952	ACACUGCU U GUCUGGCU	1277	AGCCAGAC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUGU	16585
9955	CUGCUGU C UGGCUAAG	1278	CUUAGCCA CUGAUGAG	GCCGUUAGGC	CGAA ACAAGCAG	16586
9961	GUCUGGCU A AGUCUUAU	1279	AUAAGACU CUGAUGAG	GCCGUUAGGC	CGAA AGCCAGAC	16587
9965	GGCUAAGU C UUAUGCCC	1280	GGGCAUAA CUGAUGAG	GCCGUUAGGC	CGAA ACUUAAGC	16588
9967	CUAAGUCU U AUGCCAG	1281	CUGGGCAU CUGAUGAG	GCCGUUAGGC	CGAA AGACUUAU	16589
9968	UAAGUCUU A UGCCAGAG	1282	UCUGGACA CUGAUGAG	GCCGUUAGGC	CGAA AAGACUUA	16590
9987	UGGCGUCU U CUGUACUU	1283	AAGUACAG CUGAUGAG	GCCGUUAGGC	CGAA AGCAGCCA	16591
9988	GGCUGCUU C UGUACUUC	1284	GAAGUACA CUGAUGAG	GCCGUUAGGC	CGAA AAGCAGCC	16592
9992	GUUUGUGU A CUUCCACA	1285	UGUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACAGAGCC	16593
9995	UCUGUACU U CCACAGAA	1286	UUCUGUGG CUGAUGAG	GCCGUUAGGC	CGAA AGUACAGA	16594
9996	CUGUACU C CACAGAAG	1287	CUUCUGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUACAG	16595
10017	CUGCGGCU C AUGGCCAA	1288	UUGGCCAU CUGAUGAG	GCCGUUAGGC	CGAA AGCGCGAG	16596
10032	AACGCCAU U UGCUCGCG	1289	GCGAGACA CUGAUGAG	GCCGUUAGGC	CGAA AUGGCGGU	16597
10033	ACGCCAUU U GCUCCGCU	1290	AGCGGAGC CUGAUGAG	GCCGUUAGGC	CGAA AAUGGCGU	16598
10037	CAUUGUCU C CGCUGUCC	1291	GGACAGCG CUGAUGAG	GCCGUUAGGC	CGAA AGCAAAUG	16599
10044	UCCGCGU C CCUGUGAA	1292	UUCACAGG CUGAUGAG	GCCGUUAGGC	CGAA ACAGCGGA	16600
10054	CUGUGAAU U GGUCCCU	1293	AGGGACCC CUGAUGAG	GCCGUUAGGC	CGAA AUUCACAG	16601
10059	AAUUGGUU C CCUACCGG	1294	CCGUGAGG CUGAUGAG	GCCGUUAGGC	CGAA ACCCAAUU	16602
10063	GGUUCUU A CCGGAAGA	1295	UCUUCGCG CUGAUGAG	GCCGUUAGGC	CGAA AGGGACCC	16603
10082	CACGUGGU C CAUCCAUG	1296	CAUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA ACCACGUG	16604
10086	UGGUCCAU C CAUGCAGG	1297	CCUGCAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGACCA	16605
10124	GGACAUGU U GGAAGUCU	1298	AGACUCC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGUCC	16606
10131	UUGGAGGU C UGGAACCG	1299	CGGUUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACCUCCAA	16607
10143	AACCGUGU U UGGAUAGA	1300	UCUAUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACACGGUU	16608
10144	ACCGUGUU U GGAUAGAG	1301	CUUAUCC CUGAUGAG	GCCGUUAGGC	CGAA AACACGGU	16609
10149	GUUUGGAU A GAGGAGAA	1302	UUCUCCUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCAAAC	16610
10203	AGUGACGU C CCAUAUUC	1303	GAUAUUGG CUGAUGAG	GCCGUUAGGC	CGAA ACGUCACU	16611
10208	CGUCCCAU A UUCAAGAA	1304	UUCUGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGGACCG	16612
10210	UCCCAUUAU U CAGGAAA	1305	UUUUCCUG CUGAUGAG	GCCGUUAGGC	CGAA AUUUGGGA	16613
10211	CCCAUUAU C AGGAAAC	1306	GUUUUCCU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGGU	16614
10230	GAGGACAU C UGGUGUGG	1307	CCACACCA CUGAUGAG	GCCGUUAGGC	CGAA AUGUCCUC	16615
10248	AGCCUGAU U GGCACAG	1308	CUUGGCC CUGAUGAG	GCCGUUAGGC	CGAA AUCAGGCU	16616
10284	GAUAAAU C CAGGUGGC	1309	GCCACUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUUUUC	16617
10294	AGGUGGCU A UCAACCAA	1310	UUGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA AGCCACCU	16618
10296	GUUGGUU C AACCAAGU	1311	ACUUGGUU CUGAUGAG	GCCGUUAGGC	CGAA AUAGCCAC	16619
10305	AACCAAGU C AGAGCAAU	1312	AUUGUCU CUGAUGAG	GCCGUUAGGC	CGAA ACUUGGUU	16620
10314	AGAGCAAU C AUCGAGAG	1313	UCUCGAAU CUGAUGAG	GCCGUUAGGC	CGAA AUUGUCUU	16621
10317	GCAUUAU C GGAGAUGA	1314	UUAUCCU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUUUG	16622
10331	UGAGAAGU A UGUGAUUU	1315	AAUCCACA CUGAUGAG	GCCGUUAGGC	CGAA ACUUCUCA	16623
10339	AUGUGGAU U ACAUGAGU	1316	ACUCAUGU CUGAUGAG	GCCGUUAGGC	CGAA AUCCACAU	16624
10340	UGUGGAUU A CAUGAGUU	1317	AACUCAUG CUGAUGAG	GCCGUUAGGC	CGAA AAUCCACA	16625
10348	ACAUAGAU U CACUAAAG	1318	CUUUAUGU CUGAUGAG	GCCGUUAGGC	CGAA ACUCAUGU	16626
10349	CAUGAGUU C ACUAAAGA	1319	UCUUUAUG CUGAUGAG	GCCGUUAGGC	CGAA AACUCAUG	16627

Table III

10353	AGUUCACU A AAGAGAU	1320	UAUCUCUU CUGAUGAG	GCCGUUAGGC	CGAA AGUGAACU	16628
10361	AAAGAGAU A UGAAGACA	1321	UGUCUUA CUGAUGAG	GCCGUUAGGC	CGAA AUCUCUUU	16629
10375	ACACAACU U UGGUUGAG	1322	CUCAACCA CUGAUGAG	GCCGUUAGGC	CGAA AGUUGUGU	16630
10376	CACAACUU U GGUUGAGG	1323	CCUCAACC CUGAUGAG	GCCGUUAGGC	CGAA AAGUUGUG	16631
10380	ACUUUGGU U GAGGACAC	1324	GUGUCCUC CUGAUGAG	GCCGUUAGGC	CGAA ACCAAAGU	16632
10392	GACACAGU A CUGUAGAU	1325	AUCUACAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGUGUC	16633
10397	AGUACUGU A GAUAUUA	1326	UAAUAUUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGUACU	16634
10401	CUGUAGAU A UUAUAUCA	1327	UGAUUAAA CUGAUGAG	GCCGUUAGGC	CGAA AUCUACAG	16635
10403	GUAGAUAU U UAAUCAAU	1328	AUUGAUUA CUGAUGAG	GCCGUUAGGC	CGAA AUAUUCUAC	16636
10404	UAGAUAUU U AAUCAAUU	1329	AAUUGAUU CUGAUGAG	GCCGUUAGGC	CGAA AAUAUCUA	16637
10405	AGAUUAUU A AUCAAUUG	1330	CAAUUGAU CUGAUGAG	GCCGUUAGGC	CGAA AAAUAUCU	16638
10408	UAUUUAUU C AAUUGUAA	1331	UUACAAUU CUGAUGAG	GCCGUUAGGC	CGAA AUUAAUUA	16639
10412	UAAUCAAU U GUAAAUAG	1332	CUAUUUAC CUGAUGAG	GCCGUUAGGC	CGAA AUUGAUUA	16640
10415	UCAUUGU A AAUAGACA	1333	UGUCUAUU CUGAUGAG	GCCGUUAGGC	CGAA ACAAUUGA	16641
10419	UUGUAAAU A GACAAUUA	1334	AUAUUGUC CUGAUGAG	GCCGUUAGGC	CGAA AUUUACAA	16642
10426	UAGACAAU A UAAGUAUG	1335	CAUACUUA CUGAUGAG	GCCGUUAGGC	CGAA AUUGUCUA	16643
10428	GACAAUUA A AGUAUGCA	1336	UGCAUACU CUGAUGAG	GCCGUUAGGC	CGAA AUAUUGUC	16644
10432	AUAUAAGU A UGCAUAAA	1337	UUUAUGCA CUGAUGAG	GCCGUUAGGC	CGAA ACUUAUUA	16645
10438	GUUAGCAU A AAAGUGUA	1338	UACACUUU CUGAUGAG	GCCGUUAGGC	CGAA AUGCAUAC	16646
10446	AAAAGUGU A GUUUUAUA	1339	UAUAAAAC CUGAUGAG	GCCGUUAGGC	CGAA ACACUUUU	16647
10449	AGUGUAGU U UUAUAGUA	1340	UACUAUAA CUGAUGAG	GCCGUUAGGC	CGAA ACUACACU	16648
10450	GUGUAGUU U UAUAGUAG	1341	CUACUAUA CUGAUGAG	GCCGUUAGGC	CGAA AACUACAC	16649
10451	UGUAGUUU U AUAGUAGU	1342	ACUACUAU CUGAUGAG	GCCGUUAGGC	CGAA AAACUACA	16650
10452	GUAGUUUU A UAGUAGUA	1343	UACUACUA CUGAUGAG	GCCGUUAGGC	CGAA AAAACUAC	16651
10454	AGUUUUUA A GUAGUAUU	1344	AAUACUAC CUGAUGAG	GCCGUUAGGC	CGAA AUAAAACU	16652
10457	UUUAUAGU A GUUUUAG	1345	CUAAAUAC CUGAUGAG	GCCGUUAGGC	CGAA ACUAUAAA	16653
10460	AUAGUAGU A UUUAGUGG	1346	CCACUAAA CUGAUGAG	GCCGUUAGGC	CGAA ACUACUAU	16654
10462	AGUAGUAU U UAGUGGUG	1347	CACCACUA CUGAUGAG	GCCGUUAGGC	CGAA AUACUACU	16655
10463	GUAGUAUU U AGUGGUGU	1348	ACACCACU CUGAUGAG	GCCGUUAGGC	CGAA AAUACUAC	16656
10464	UAGUAUUU A UGGUGUUU	1349	AACACCAC CUGAUGAG	GCCGUUAGGC	CGAA AAAUACUA	16657
10472	AGUGGUGU U AGUGUAAA	1350	UUUACACU CUGAUGAG	GCCGUUAGGC	CGAA AACACCACU	16658
10473	GUGGUGUU A GUGUAAAU	1351	AUUUACAC CUGAUGAG	GCCGUUAGGC	CGAA AACACCAC	16659
10478	GUUAGUGU A AAUAGUUA	1352	UAACUAUU CUGAUGAG	GCCGUUAGGC	CGAA ACACUAAAC	16660
10482	GUGUAAAU A GUUAAGAA	1353	UUCUUAAC CUGAUGAG	GCCGUUAGGC	CGAA AUUUACAC	16661
10485	UAAUAGU U AAGAAAUU	1354	AUUUUCUU CUGAUGAG	GCCGUUAGGC	CGAA ACUAUUUA	16662
10486	AAAUAGUU A AGAAAAUU	1355	AAUUUUCU CUGAUGAG	GCCGUUAGGC	CGAA AACUAUUU	16663
10494	AAGAAAU U UGAGGAG	1356	CUCCUCA CUGAUGAG	GCCGUUAGGC	CGAA AUUUUCUU	16664
10495	AGAAAAUU U UGAGGAGA	1357	UCUCCUCA CUGAUGAG	GCCGUUAGGC	CGAA AAUUUCUU	16665
10496	GAAAAUUU U GAGGAGAA	1358	UUCUCCUC CUGAUGAG	GCCGUUAGGC	CGAA AAAUUUUC	16666
10508	GAGAAAGU C AGGCCGGG	1359	CCCGGCCU CUGAUGAG	GCCGUUAGGC	CGAA ACUUUCUC	16667
10521	CGGGAAGU U CCCGCCAC	1360	GUGGCCGG CUGAUGAG	GCCGUUAGGC	CGAA ACTUCCCG	16668
10522	GGGAAGUU C CCGCCACC	1361	GGUGGCCG CUGAUGAG	GCCGUUAGGC	CGAA AACUCCCG	16669
10537	CCGGAAGU U GAGUAGAC	1362	GUCUACUC CUGAUGAG	GCCGUUAGGC	CGAA ACUCCCG	16670
10542	AGUUGAGU A GACGGUGC	1363	GCACCGUC CUGAUGAG	GCCGUUAGGC	CGAA ACTUACAU	16671
10562	CUGCGACU C AACCCACG	1364	CUGGGGUU CUGAUGAG	GCCGUUAGGC	CGAA AGUCGCAG	16672
10602	GAAGUGAU C CAUGUAAG	1365	CUUACAUG CUGAUGAG	GCCGUUAGGC	CGAA AUCACUUC	16673
10608	AUCCAUGU A AGCCCUCA	1366	UGAGGGCU CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGAU	16674
10615	UAAGCCCU C AGAACCGU	1367	ACGGUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGGGCUUA	16675
10624	AGAACCUG C UCGGAAGG	1368	CCUCCGA CUGAUGAG	GCCGUUAGGC	CGAA ACGGUUCU	16676
10626	AACCGUCU C GGAAGGAG	1369	CUCCUCC CUGAUGAG	GCCGUUAGGC	CGAA AGACGUGU	16677
10647	CCACAUGU U GUAACUUC	1370	GAAGUUAC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGUGG	16678
10650	CAUGUUGU A ACUUCAAA	1371	UUUGAAGU CUGAUGAG	GCCGUUAGGC	CGAA ACAACAUU	16679
10654	UUGUAACU U CAAAGCCC	1372	GGGCUUUG CUGAUGAG	GCCGUUAGGC	CGAA AGUUACAA	16680
10655	UGUAACUU C AAAGCCCA	1373	UGGGCUUU CUGAUGAG	GCCGUUAGGC	CGAA AAGUUACA	16681
10668	CCCAUUGU C AGACCACG	1374	CGUGGUCU CUGAUGAG	GCCGUUAGGC	CGAA ACAUUGGG	16682
10679	ACCACGCU A CGGCGUGC	1375	GCACGCCG CUGAUGAG	GCCGUUAGGC	CGAA AGCGUGGU	16683
10689	GGCGUGCU A CUCUGCGG	1376	CCGCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGCACGCC	16684
10692	GUGCUACU C UGCGGAGA	1377	UCUCCGCA CUGAUGAG	GCCGUUAGGC	CGAA AGUAGCAC	16685
10708	AGUGCAGU C UGCGAUAG	1378	CUAUCGCA CUGAUGAG	GCCGUUAGGC	CGAA ACUGCACU	16686
10715	UCUGCGAU A GUGCCCCA	1379	UGGGGCAC CUGAUGAG	GCCGUUAGGC	CGAA AUCGCAGA	16687
10736	GACUGGGU U AACAAAGG	1380	CCUUUGUU CUGAUGAG	GCCGUUAGGC	CGAA ACCCAGUC	16688
10737	ACUGGGUU A ACAAAGGC	1381	GCUUUGUU CUGAUGAG	GCCGUUAGGC	CGAA AACCAGU	16689
10769	GCGGCCCU A GCCCCGGU	1382	ACCGGGGC CUGAUGAG	GCCGUUAGGC	CGAA AGGGCCGC	16690

Table III

10778	GCCCCGGU A AUGGUGUU	1383	AACACCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCGGGGC	16691
10786	AAUGGUGU U AACCAAGG	1384	CCCUUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACCAUU	16692
10787	AUGGUGUU A ACCAGGGC	1385	GCCCUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACACCAU	16693
10805	AAAGGACU A GAGGUUAG	1386	CUAACCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCCUUU	16694
10811	CUAGAGGU U AGAGGAGA	1387	UCUCCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUCUAG	16695
10812	UAGAGGUU A GAGGAGAC	1388	GUCUCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCCUCU	16696
10829	CCCGCGGU U UAAAGUGC	1389	GCACUUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCGCGGG	16697
10830	CCCGCGGU U AAAGUGCA	1390	UGCACUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCGCGG	16698
10831	CGCGGUUU A AAGUGCAC	1391	GUGCACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAACCGCG	16699
10862	GAAGCUGU A GGUCAGGG	1392	CCCUGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGCUUC	16700
10866	CUGUAGGU C AGGGGAAG	1393	CUUCCCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUACAG	16701
10879	GAAGGACU A GAGGUUAG	1394	CUAACCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCCUUC	16702
10885	CUAGAGGU U AGUGGAGA	1395	UCUCCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUCUAG	16703
10886	UAGAGGUU A GUGGAGAC	1396	GUCUCCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCCUCU	16704
10928	AACAGCAU A UUGACACC	1397	GGUGUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCUGUU	16705
10930	CAGCAUUA U GACACCUG	1398	CAGGUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAUGCUG	16706
10943	CCUGGGAU A GACUAGGA	1399	UCCUAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCCAGG	16707
10948	GAUAGACU A GGAGAUUC	1400	AGAUCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCUAUC	16708
10955	UAGGAGAU C UUCUGCUC	1401	GAGCAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCUCCUA	16709
10957	GGAGAUUC U CUGCUCUG	1402	CAGAGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAUCUCC	16710
10958	GAGAUUCU C UGCUCUGC	1403	GCAGAGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGAUCUC	16711
10963	CUUCUGCU C UGCACAAC	1404	GUUGUGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAGAAG	16712

Table IV

Table IV: WNV Inozyme and Target Sequence

Pos	Substrate	Seq ID	Ribozyme			Rz Seq ID
11	UAGUUCGC C UGUGUGAG	1405	CUCACACA CUGAUGAG	GCCGUUAGGC	CGAA ICGAACUA	16713
12	AGUUCGCC U GUGUGAGC	1406	GCUCACAC CUGAUGAG	GCCGUUAGGC	CGAA ICGAACU	16714
21	GUGUGAGC U GACAAACU	1407	AGUUUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICUCACAC	16715
25	GAGCUGAC A AACUUAGU	1408	ACUAAGUU CUGAUGAG	GCCGUUAGGC	CGAA IUCAGCUC	16716
29	UGACAAAC U UAGUAGUG	1409	CACUACUA CUGAUGAG	GCCGUUAGGC	CGAA IUUUGUCA	16717
53	GGAUUAAC A ACAAUUA	1410	UUAUUGU CUGAUGAG	GCCGUUAGGC	CGAA IUUAUCC	16718
56	UUAACAAC A AUUAACAC	1411	GUGUUAU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUUA	16719
63	CAAUUAAC A CAGUGCGA	1412	UCGCACUG CUGAUGAG	GCCGUUAGGC	CGAA IUUAUUG	16720
65	AUUAACAC A GUGCGAGC	1413	GCUCGCAC CUGAUGAG	GCCGUUAGGC	CGAA IUGUUAU	16721
74	GUGCGAGC U GUUUCUUA	1414	UAAGAAAC CUGAUGAG	GCCGUUAGGC	CGAA ICUCGCAC	16722
80	GCUGUUUC U UAGCACGA	1415	UCGUGCUA CUGAUGAG	GCCGUUAGGC	CGAA IAAACAGC	16723
85	UUCUUAGC A CGAAGAUC	1416	GAUCUUCG CUGAUGAG	GCCGUUAGGC	CGAA ICUAAGAA	16724
94	CGAAGAUC U CGAUGUCU	1417	AGACAUCG CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUCG	16725
102	UCGAUGUC U AAGAAACC	1418	GGUUUCU CUGAUGAG	GCCGUUAGGC	CGAA IACAUCGA	16726
110	UAAGAAAC C AGGAGGGC	1419	GCCCUCU CUGAUGAG	GCCGUUAGGC	CGAA IUUUCUUA	16727
111	AAGAAACC A GGAGGGCC	1420	GGCCUCC CUGAUGAG	GCCGUUAGGC	CGAA IGUUUCU	16728
119	AGGAGGGC C CGGCAAGA	1421	UCUUGCCG CUGAUGAG	GCCGUUAGGC	CGAA ICCCUCCU	16729
120	GGAGGGCC C GGCAAGAG	1422	CUCUUGCC CUGAUGAG	GCCGUUAGGC	CGAA IGCCUCC	16730
124	GGCCCGC A AGAGCCGG	1423	CCGGUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCGGGCC	16731
130	GCAAGAGC C GGGCUGUC	1424	GACAGCCC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUUGC	16732
135	AGCCGGGC U GUCAUAU	1425	AUAUUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICCGGGU	16733
139	GGGCGUC A AUAUGCUA	1426	UAGCAUAU CUGAUGAG	GCCGUUAGGC	CGAA IACAGCCC	16734
146	CAUAUUGC U AAAACGCG	1427	CGCGUUU CUGAUGAG	GCCGUUAGGC	CGAA ICAUAUUG	16735
161	CGGAAUGC C CCGCGUGU	1428	ACACGCG CUGAUGAG	GCCGUUAGGC	CGAA ICAUUCG	16736
162	GGAAUGCC C CGCGUGU	1429	AACACGCG CUGAUGAG	GCCGUUAGGC	CGAA IGCAUUC	16737
163	GAAUGCCC C CGGUGU	1430	CAACACG CUGAUGAG	GCCGUUAGGC	CGAA IGGCAUUC	16738
174	GUGUUGC C UUGAUUGG	1431	CCAAUCAA CUGAUGAG	GCCGUUAGGC	CGAA IACAACAC	16739
175	UGUUGUCC U UGAUUGGA	1432	UCCAUAU CUGAUGAG	GCCGUUAGGC	CGAA IGACAACA	16740
185	GAUUGGAC U GAAGAGGG	1433	CCCUCUUC CUGAUGAG	GCCGUUAGGC	CGAA IUCCAUC	16741
195	AAGAGGGC U AUGUUGAG	1434	CUCAACAU CUGAUGAG	GCCGUUAGGC	CGAA ICCUCUU	16742
205	UGUUGAGC C UGAUCGAC	1435	GUCGAUCA CUGAUGAG	GCCGUUAGGC	CGAA ICUCAACA	16743
206	GUUGAGCC U GAUCGACG	1436	CGUCGAUC CUGAUGAG	GCCGUUAGGC	CGAA IGCUCAAC	16744
217	UCGACGGC A AGGGGCCA	1437	UGGCCCU CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGCA	16745
224	CAAGGGC A AAUACGAU	1438	AUCGUAU CUGAUGAG	GCCGUUAGGC	CGAA ICCCUUG	16746
225	AAGGGGCC A AUACGAU	1439	AAUCGUAU CUGAUGAG	GCCGUUAGGC	CGAA IGCCCUU	16747
243	GUGUUGGC U CUCUUGGC	1440	GCCAAGAG CUGAUGAG	GCCGUUAGGC	CGAA ICCAACAC	16748
245	GUUGGCUC U CUUGGCGU	1441	ACGCCAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGCCAAC	16749
247	UGGCUCUC U UGGCGUUC	1442	GAACGCCA CUGAUGAG	GCCGUUAGGC	CGAA IAGAGCCA	16750
256	UGGCGUUC U UCAGGUUC	1443	GAACCGUA CUGAUGAG	GCCGUUAGGC	CGAA IAACGCCA	16751
259	CGUUCUUC A GGUUCACA	1444	UGUGAAC CUGAUGAG	GCCGUUAGGC	CGAA IAAGAACG	16752
265	UCAGGUUC A CAGCAAU	1445	AAUUGCUC CUGAUGAG	GCCGUUAGGC	CGAA IAACCUGA	16753
267	AGGUUCAC A GCAAUUGC	1446	GCAAUUGC CUGAUGAG	GCCGUUAGGC	CGAA IUGAACCU	16754
270	UUCACAGC A AUUGCUC	1447	GGAGCAAU CUGAUGAG	GCCGUUAGGC	CGAA ICUGUGAA	16755
276	GCAAUUGC U CCGACCCG	1448	CGGGUCGG CUGAUGAG	GCCGUUAGGC	CGAA ICAAUUGC	16756
278	AAUUGCUC C GACCCGAG	1449	CUCGGGUC CUGAUGAG	GCCGUUAGGC	CGAA IAGCAAU	16757
282	GCUCGAC C CGAGCAGU	1450	ACUGCUC CUGAUGAG	GCCGUUAGGC	CGAA IUCGGAGC	16758
283	CUCCGACC C GAGCAGUG	1451	CACUGCUC CUGAUGAG	GCCGUUAGGC	CGAA IGUCGGAG	16759
288	ACCCGAGC A GUGCUGGA	1452	UCCAGCAC CUGAUGAG	GCCGUUAGGC	CGAA ICUCGGU	16760
293	AGCAGUC U GGAUCGAU	1453	AUCGAUC CUGAUGAG	GCCGUUAGGC	CGAA ICACUGCU	16761
316	GUGUGAAC A AACAAACA	1454	UGUUGUU CUGAUGAG	GCCGUUAGGC	CGAA IUUCACAC	16762
320	GAACAAAC A AACAGCGA	1455	UGCUGUU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUUU	16763
324	AAACAAAC A GCGAUGAA	1456	UUCAUCGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGUUU	16764
335	GAUGAAAC A CCUUCUGA	1457	UCAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IUUUCAU	16765
337	UGAAACAC C UUCUGAGU	1458	ACUCAGAA CUGAUGAG	GCCGUUAGGC	CGAA IUGUUUA	16766
338	GAAACACC U UCUGAGUU	1459	AACUCAGA CUGAUGAG	GCCGUUAGGC	CGAA IGUGUUU	16767
341	ACACCUUC U GAGUUUU	1460	UAAAACUC CUGAUGAG	GCCGUUAGGC	CGAA IAAGGUGU	16768
359	GAAGGAAC U AGGGACCU	1461	AGGUCCU CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUC	16769
366	CUAGGGAC C UUGACCAG	1462	CUGGUCAA CUGAUGAG	GCCGUUAGGC	CGAA IUCCUAG	16770

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367	UAGGGACC U UGACCAGU	1463	ACUGGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCCCUA	16771
372	ACCUUGAC C AGUGCUAU	1464	AUAGCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUC AAGGU	16772
373	CCUUGACC A GUGCUAUC	1465	GAUAGCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCAAGG	16773
378	ACCAGUGC U AUCAAUCG	1466	CGAUUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACUGGU	16774
382	GUGCUAUC A AUCGCGCG	1467	CCGCCGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAGCAC	16775
394	GGCGGAGC U CAAAACAA	1468	UUGUUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCCGCC	16776
396	CGGAGCUC A AAACAAA	1469	UUUUGUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCUCCG	16777
401	CUCAAAAC A AAAGAAA	1470	UUUUCUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUUGAG	16778
423	GGAAAGAC C GGAUUGC	1471	GCAAUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUUUCC	16779
432	GGAAUUGC A GUCAUGAU	1472	AUCAUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAUUC	16780
436	UUGCAGUC A UGAUUGGC	1473	GCCAAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUGCAA	16781
445	UGAUUGGC C UGAUCGCC	1474	GGCGAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAAUCA	16782
446	GAUUGGCC U GAUCGCA	1475	UGGCGAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCAAUC	16783
453	CUGAUCGC C AGCGUAGG	1476	CCUACGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAUCAG	16784
454	UGAUCGCC A GCGUAGGA	1477	UCCUACGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGC GAUCA	16785
465	GUAGGAGC A GUUACCCU	1478	AGGGUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCCUAC	16786
471	GCAGUAC C CUCUCUAA	1479	UUAGAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAACUGC	16787
472	CAGUUAAC C UCUCUAA	1480	GUUAGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUAACUG	16788
473	AGUUAACC U CUCUAACU	1481	AGUUAAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUAACU	16789
475	UUACCCUC U CUAACUUC	1482	GAAGUUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGGUAA	16790
477	ACCCUCUC U AACUCCA	1483	UGGAAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGGGU	16791
481	UCUCUAA C UCCAAGGG	1484	CCCUUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUAGAGA	16792
484	CUAACUUC C AAGGGAAG	1485	CUUCCCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGUUAG	16793
485	UAACUUC C AAGGGAAG	1486	CCUUCUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGUUA	16794
513	GUAAAUUC U ACUGACGU	1487	ACGUCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUUUAC	16795
516	AAUGCUAC U GACGUCAC	1488	GUGACGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAGCAUU	16796
523	CUGACGUC A CAGAUGUC	1489	GACAUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGUCAG	16797
525	GACGUCAC A GAUGUCAU	1490	AUGACAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGACGUC	16798
532	CAGAUGUC A UCACGAUU	1491	AAUCGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAUCUG	16799
535	AUGUCAUC A CGAUUCCA	1492	UGGAAUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGACAU	16800
542	CACGAUUC C AACAGCUC	1493	CAGCUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUCGUG	16801
543	ACGAUUC C ACAGCUGC	1494	GCAGCUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACUGU	16802
546	AUUCCAAC A GCUGCUGG	1495	CCAGCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGAAU	16803
549	CCAACAGC U GCUGGAAA	1496	UUUCCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGUUGG	16804
552	ACAGCUGC U GGAAGGAA	1497	UUCUUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGCUGU	16805
562	GAAAGAAC C UAUGCAUU	1498	AAUGCAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUUUC	16806
563	AAAGAAC C UAUGCAUU	1499	CAUUGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUCUUU	16807
568	ACCUAUGC A UUGUCAGA	1500	UCUGACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUAGGU	16808
574	GCAUUGUC A GAGCAAUG	1501	CAUUGCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAUUGC	16809
579	GUCAGAGC A AUGGAUGU	1502	ACAUCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUGAC	16810
595	UGGGAUAC A UGUGCGAU	1503	AUCGCACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAUCCCA	16811
609	GAUGAUAC U AUCACUUA	1504	UAAGUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAUCAUC	16812
613	AUACUAUC A CUUAUGAA	1505	UUCAUAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAGUUA	16813
615	ACUAUCAC U UAUGAUG	1506	CAUUCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAUAGU	16814
625	AUGAAUGC C CAGUGCUG	1507	CAGCACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUUCAU	16815
626	UGAAUGCC C AGUGCUGU	1508	ACAGCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUUA	16816
627	GAAUGCCC A GUGCUGUC	1509	GACAGCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCAUUC	16817
632	CCCAGUGC U GUCGGCUG	1510	CAGCCGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUGGG	16818
639	CUGUCGCG U GGUAAUGA	1511	UCAUUACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGACAG	16819
650	UAAUGAUC C AGAAGACA	1512	UGUUCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCAUUA	16820
651	AAUGAUCC A GAAGACAU	1513	AUGUCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUCAUU	16821
658	CAGAAGAC A UCGACUGU	1514	ACAGUCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUUCUG	16822
664	ACAUCGAC U GUUGGUGC	1515	GCACCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGAUGU	16823
673	GUUGGUGC A CAAAGUCA	1516	UGACTUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACCAAC	16824
675	UGGUGCAC A AAGUCAGC	1517	GCUGACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGACCA	16825
681	ACAAAGUC A GCAGUCUA	1518	UAGACUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUUGU	16826
684	AAGUCAGC A GUCUACGU	1519	ACGUAGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGACUU	16827
688	CAGCAGUC U ACGUCAGG	1520	CCUGACGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUGCUG	16828
694	UCUACGUC A GGUUAUGA	1521	UCCAUACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGUAGA	16829
709	GAAGAUCC A CCAAGACA	1522	UGUCUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUCUUC	16830
711	AGAUGCAC C AAGACACG	1523	CGUGUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCAUCU	16831
712	GAUGCACC A AGACACGC	1524	GCGUGUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGCAUC	16832

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717	ACCAAGAC A CGCCACUC	1525	GAGUGGCG CUGAUGAG	GCCGUUAGGC	CGAA IUCUUGGU	16833
721	AGACACGC C ACUCAAGA	1526	UCUUGAGU CUGAUGAG	GCCGUUAGGC	CGAA ICGUGUCU	16834
722	GACACGCC A CUCAAGAC	1527	GUCUUGAG CUGAUGAG	GCCGUUAGGC	CGAA ICGUGUC	16835
724	CACGCCAC U CAAGACGC	1528	GCUCUUG CUGAUGAG	GCCGUUAGGC	CGAA IUGGCGUG	16836
726	CGCCACUC A AGACGCAG	1529	CUGCGUCU CUGAUGAG	GCCGUUAGGC	CGAA IAGUGGCG	16837
733	CAAGACGC A GUCGGAGG	1530	CCUCCGAC CUGAUGAG	GCCGUUAGGC	CGAA ICGUCUUG	16838
744	CGGAGGUC A CUGACAGU	1531	ACUGUCAG CUGAUGAG	GCCGUUAGGC	CGAA IACCUCUG	16839
746	GAGGUCAC U GACAGUGC	1532	GCACUGUC CUGAUGAG	GCCGUUAGGC	CGAA IUGACCUC	16840
750	UCACUGAC A GUGCAGAC	1533	GUCUGCAC CUGAUGAG	GCCGUUAGGC	CGAA IUCAGUGA	16841
755	GACAGUGC A GACACACG	1534	CGUGUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICACUGUC	16842
759	GUGCAGAC A CACGGAGA	1535	UCUCCGUG CUGAUGAG	GCCGUUAGGC	CGAA IUCUGCAC	16843
761	GCAGACAC A CGAGAGAA	1536	UUUCUCCG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCUGC	16844
772	GAGAAAGC A CUCUAGCG	1537	CGCUAGAG CUGAUGAG	GCCGUUAGGC	CGAA ICUUUCUC	16845
774	GAAAGCAC U CUAGCGAA	1538	UUCGCUAG CUGAUGAG	GCCGUUAGGC	CGAA IUGCUUUC	16846
776	AAGCACUC U AGCGAACA	1539	UGUUCGCU CUGAUGAG	GCCGUUAGGC	CGAA IAGUGCUU	16847
784	UAGCGAAC A AGAAGGGG	1540	CCCCUUCU CUGAUGAG	GCCGUUAGGC	CGAA IUUCGCUA	16848
795	AAGGGGGC U UGGAUGGA	1541	UCCAUCCA CUGAUGAG	GCCGUUAGGC	CGAA ICCCCUUC	16849
805	GAUGGAC A GCACCAAG	1542	CUUGGUGC CUGAUGAG	GCCGUUAGGC	CGAA IUCCAUCC	16850
808	UGGACAGC A CCAAGGCC	1543	GGCUUGG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCCA	16851
810	GACAGCAC C AAGGCCAC	1544	GUGGCCU CUGAUGAG	GCCGUUAGGC	CGAA IUGCUGUC	16852
811	ACAGCACC A AGGCCACA	1545	UGUGGCCU CUGAUGAG	GCCGUUAGGC	CGAA IGUGCUGU	16853
816	ACCAAGGC C ACAAGGUA	1546	UACCUUGU CUGAUGAG	GCCGUUAGGC	CGAA ICCUUGGU	16854
817	CCAAGGCC A CAAGGUAU	1547	AUACCUUG CUGAUGAG	GCCGUUAGGC	CGAA IGCCUUGG	16855
819	AAGGCCAC A AGGUUUU	1548	AAAUACCU CUGAUGAG	GCCGUUAGGC	CGAA IUGGCCU	16856
837	GUAAAAAC A GAAUCAUG	1549	CAUGAUUC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUAU	16857
843	ACAGAAUC A UGGAUCUU	1550	AAGAUCCA CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUGU	16858
850	CAUGGAUC U UGAGGAAC	1551	GUUCCUCA CUGAUGAG	GCCGUUAGGC	CGAA IAUCCAUG	16859
859	UGAGGAAC C UGGAUUAU	1552	AUAUCCAG CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUCA	16860
860	GAGGAACC C UGGAUAUG	1553	CAUAUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGUUCUUC	16861
861	AGGAACCC U GGAUAUGC	1554	GCAUAUCC CUGAUGAG	GCCGUUAGGC	CGAA IGGUUCU	16862
870	GGAUUAUC C UGGUGGC	1555	GCCACCAG CUGAUGAG	GCCGUUAGGC	CGAA ICAUAUCC	16863
871	GAUAUGCC C UGGUGGCA	1556	UGCCACCA CUGAUGAG	GCCGUUAGGC	CGAA IGCAUAUC	16864
872	AUAUGCCC U GGUGGCAG	1557	CUGCCACC CUGAUGAG	GCCGUUAGGC	CGAA IGGCAUUA	16865
879	UGGUGGC C GCGUCAU	1558	AUGACGGC CUGAUGAG	GCCGUUAGGC	CGAA ICCACCAG	16866
882	GUGGCAGC C GUCAUUGG	1559	CCAUAUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGCCAC	16867
886	CAGCCGUC A UUGGUUGG	1560	CCAACCAA CUGAUGAG	GCCGUUAGGC	CGAA IACGGCUG	16868
899	UUGGAUGC U UGGGAGCA	1561	UGCUCCCA CUGAUGAG	GCCGUUAGGC	CGAA ICAUCCAA	16869
907	UUGGGAGC A ACACCAUG	1562	CAUGGUGU CUGAUGAG	GCCGUUAGGC	CGAA ICUCCCAA	16870
910	GGAGCAAC A CCAUGCAG	1563	CUGCAUGG CUGAUGAG	GCCGUUAGGC	CGAA IUUGCUCU	16871
912	AGCAACAC C AUGCAGAG	1564	CUCUGCAU CUGAUGAG	GCCGUUAGGC	CGAA IUGUUGCU	16872
913	GCAACACC A UGCAGAGA	1565	UCUCUGCA CUGAUGAG	GCCGUUAGGC	CGAA IGUGUUGC	16873
917	CACCAUGC A GAGAUUG	1566	CAACUUC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUG	16874
938	UGUCGUGC U AUUGCUTU	1567	AAAGCAU CUGAUGAG	GCCGUUAGGC	CGAA ICACGACA	16875
944	GCUAUUGC U UUUGGUGG	1568	CCACCAA CUGAUGAG	GCCGUUAGGC	CGAA ICAAUAGC	16876
954	UUGGUGGC C CCAGCUUA	1569	UAAGCUGG CUGAUGAG	GCCGUUAGGC	CGAA ICCACCAA	16877
955	UGGUGGCC C CAGCUUAC	1570	GUAGCUG CUGAUGAG	GCCGUUAGGC	CGAA IGCCACCA	16878
956	GGUGGCC C AGCUUACA	1571	UGUAAGCU CUGAUGAG	GCCGUUAGGC	CGAA IGGCCACC	16879
957	GUGGCC C AGCUUACAG	1572	CUGUAAGC CUGAUGAG	GCCGUUAGGC	CGAA IGGGCCAC	16880
960	GCCCCAGC U UACAGCUU	1573	AAGCUGUA CUGAUGAG	GCCGUUAGGC	CGAA ICUGGGC	16881
964	CAGCUUAC A GCUUCAAC	1574	GUUGAAGC CUGAUGAG	GCCGUUAGGC	CGAA IUAAGCUG	16882
967	CUUACAGC U UCAACUGC	1575	GCAGUUGA CUGAUGAG	GCCGUUAGGC	CGAA ICUGUAAG	16883
970	ACAGCUUC A ACUGCCUU	1576	AAGGCAGU CUGAUGAG	GCCGUUAGGC	CGAA IAAGCUGU	16884
973	GCUUCAAC U GCUUGGA	1577	UCCAAGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGAAGC	16885
976	UCAACUGC C UUGGAUUG	1578	CAUCCAA CUGAUGAG	GCCGUUAGGC	CGAA ICAGUUGA	16886
977	CAACUGCC U UGGAUUGA	1579	UCAUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGCAGUUG	16887
988	GAAUGAGC A ACAGAGAC	1580	GUCUCUGU CUGAUGAG	GCCGUUAGGC	CGAA ICUCAUUC	16888
991	UAGGCAAC A GAGACUUC	1581	GAAGUC CUGAUGAG	GCCGUUAGGC	CGAA IUUGCUCA	16889
997	ACAGAGAC U UCUGGAA	1582	UUCCAAGA CUGAUGAG	GCCGUUAGGC	CGAA IUCUCUGU	16890
1000	GAGACUUC U UGGAAGGA	1583	UCCUCCA CUGAUGAG	GCCGUUAGGC	CGAA IAAGUCUC	16891
1014	GGAGUGUC U GGAGCAAC	1584	GUUGCUCC CUGAUGAG	GCCGUUAGGC	CGAA IACACUCC	16892
1020	UCUGGAGC A ACAUGGGU	1585	ACCAUGU CUGAUGAG	GCCGUUAGGC	CGAA ICUCCAGA	16893
1023	GGAGCAAC A UGGUGGA	1586	UCCACCA CUGAUGAG	GCCGUUAGGC	CGAA IUUGCUCU	16894

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1040	UUUGGUUC U CGAAGGCG	1587	CGCCUUCG CUGAUGAG	GCCGUUAGGC	CGAA IAACCAAA	16895
1051	AAGCGGAC A GCUGCGUG	1588	CACGAGC CUGAUGAG	GCCGUUAGGC	CGAA IUCGCCU	16896
1054	GCGACAGC U GCGUGACU	1589	AGUCACGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCGC	16897
1062	UGCGUGAC U AUCAUGUC	1590	GACAUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUCACGCA	16898
1066	UGACUAC A UGUCUAG	1591	CUUAGACA CUGAUGAG	GCCGUUAGGC	CGAA IAUAGUCA	16899
1071	AUCAUGUC U AAGGACAA	1592	UUGUCCU CUGAUGAG	GCCGUUAGGC	CGAA IACAUGAU	16900
1078	CUAAGGAC A AGCCUACC	1593	GGUAGGCU CUGAUGAG	GCCGUUAGGC	CGAA IUCCUAG	16901
1082	GGACAAGC C UACCAUCG	1594	CGAUGGUA CUGAUGAG	GCCGUUAGGC	CGAA ICUUGUCC	16902
1083	GACAAGCC U ACCAUCGA	1595	UCGAUGGU CUGAUGAG	GCCGUUAGGC	CGAA IGCUGUC	16903
1086	AAGCCUAC C AUCGAUGU	1596	ACAUCGAU CUGAUGAG	GCCGUUAGGC	CGAA IUAGGCU	16904
1087	AGCCUACC A UCAGUGUG	1597	CACAUCGA CUGAUGAG	GCCGUUAGGC	CGAA IGUAGGCU	16905
1120	AGGCGGUC A ACCUGGCA	1598	UGCCAGGU CUGAUGAG	GCCGUUAGGC	CGAA IACCGCCU	16906
1123	CGGUCAAC C UGGCAGAG	1599	CUCUGCCA CUGAUGAG	GCCGUUAGGC	CGAA IUUGACCG	16907
1124	GGUCAACC U GGCAGAGG	1600	CCUCUGCC CUGAUGAG	GCCGUUAGGC	CGAA IGUGACC	16908
1128	AACCUGGC A GAGGUCCG	1601	CGGACCUC CUGAUGAG	GCCGUUAGGC	CGAA ICCAGGU	16909
1135	CAGAGGUC C GCAGUUAU	1602	AUAACUGC CUGAUGAG	GCCGUUAGGC	CGAA IACCTUCG	16910
1138	AGGUCCGC A GUUAUUGC	1603	GCAAUAAC CUGAUGAG	GCCGUUAGGC	CGAA ICGACCU	16911
1147	GUUAUUGC U AUUUGGCU	1604	AGCCAAAU CUGAUGAG	GCCGUUAGGC	CGAA ICAUAAC	16912
1155	UAUUGGC U ACCGUCAG	1605	CUGACGGU CUGAUGAG	GCCGUUAGGC	CGAA ICCAAUA	16913
1158	UUGGCUAC C GUCAGCGA	1606	UCGCUAG CUGAUGAG	GCCGUUAGGC	CGAA IUAGCAA	16914
1162	CUACCGUC A GCGAUCUC	1607	GAGAUCCG CUGAUGAG	GCCGUUAGGC	CGAA IACGGUAG	16915
1169	GAGCGAUC U CUCCACCA	1608	UGGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IAUCCUG	16916
1171	GCGAUCUC U CCACCAA	1609	UUUGGUGG CUGAUGAG	GCCGUUAGGC	CGAA IAGAUCGC	16917
1173	GAUCUCUC C ACCAAAGC	1610	GCUUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGAGAU	16918
1174	AUCUCUCC A CCAAAGCU	1611	AGCUUUGG CUGAUGAG	GCCGUUAGGC	CGAA IGAGAGAU	16919
1176	CUCUCCAC C AAAGCUGC	1612	GCAGCUU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAGAG	16920
1177	UCUCCACC A AAGCUGCG	1613	CGCAGCU CUGAUGAG	GCCGUUAGGC	CGAA IGUGGAGA	16921
1182	ACCAAAGC U CGUGGCC	1614	GGGCACGC CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGU	16922
1189	CUGCGUGC C GCGCAUG	1615	CAUGGUCG CUGAUGAG	GCCGUUAGGC	CGAA ICACGAG	16923
1190	UGCGUGCC C GACCAUGG	1616	CCAUGGUC CUGAUGAG	GCCGUUAGGC	CGAA IGCACGCA	16924
1194	UGCCCGAC C AUGGGAGA	1617	UCUCCAU CUGAUGAG	GCCGUUAGGC	CGAA IUCGGCA	16925
1195	GCCCGACC A UGGGAGAA	1618	UUCUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IGUCGGC	16926
1206	GGAGAAGC U CACAAUGA	1619	UCAUUGUG CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCC	16927
1208	AGAAGCUC A CAAUGACA	1620	UGUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGCUUCU	16928
1210	AAGCUCAC A AUGACAA	1621	UUUGUCAU CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCU	16929
1216	ACAAUGAC A AACGUGCU	1622	AGCACGUU CUGAUGAG	GCCGUUAGGC	CGAA IUCAUUGU	16930
1224	AAACGUGC U GACCCAGC	1623	GCUGGGUC CUGAUGAG	GCCGUUAGGC	CGAA ICACGUU	16931
1228	GUGCUGAC C CAGCUUUU	1624	AAAAGCUG CUGAUGAG	GCCGUUAGGC	CGAA IUCAGCAC	16932
1229	UGCUGACC C AGCUUUUG	1625	CAAAAGCU CUGAUGAG	GCCGUUAGGC	CGAA IGUCAGCA	16933
1230	GCUGACCC A GCUUUUGU	1626	ACAAAAGC CUGAUGAG	GCCGUUAGGC	CGAA IGGUCAGC	16934
1233	GACCCAGC U UUUGUGUG	1627	CACACAAA CUGAUGAG	GCCGUUAGGC	CGAA ICUGGGUC	16935
1243	UUUGUGC A GACAAGGA	1628	UCCUUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICACACAA	16936
1247	GUGCAGAC A AGGAGUGG	1629	CCACUCCU CUGAUGAG	GCCGUUAGGC	CGAA IUCGACC	16937
1261	UGGUGGAC A GGGCUGG	1630	CCAGCCCC CUGAUGAG	GCCGUUAGGC	CGAA IUCCACCA	16938
1267	ACAGGGGC U GGGCAAC	1631	GUUGCCCC CUGAUGAG	GCCGUUAGGC	CGAA ICCCCUGU	16939
1273	GCUGGGGC A ACGGCGUC	1632	GCAGCCGU CUGAUGAG	GCCGUUAGGC	CGAA ICCCCAGC	16940
1279	GCAACGGC U GCGGAUUA	1633	UAAUCCGC CUGAUGAG	GCCGUUAGGC	CGAA ICCGUUGC	16941
1294	UAUUGGC A AAGGAAGC	1634	GCUUCCU CUGAUGAG	GCCGUUAGGC	CGAA ICCAAUA	16942
1303	AAGGAAGC A UUGACACA	1635	UGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA ICUUCCU	16943
1309	GCAUUGAC A CAUGCGCC	1636	GGCGCAUG CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUGC	16944
1311	AUUGACAC A UGCGCAA	1637	UUGGCGCA CUGAUGAG	GCCGUUAGGC	CGAA IUGCAAU	16945
1317	ACAUGGC C AAUUGUC	1638	GCAAUUAU CUGAUGAG	GCCGUUAGGC	CGAA ICGCAUGU	16946
1318	CAUGCGCC A AAUUGCC	1639	GGCAAUUA CUGAUGAG	GCCGUUAGGC	CGAA IGGCAUG	16947
1326	AAUUGC C UGCUCUAC	1640	GUAGAGCA CUGAUGAG	GCCGUUAGGC	CGAA ICAAUUU	16948
1327	AAUUGCC U GCUCUACC	1641	GGUAGAGC CUGAUGAG	GCCGUUAGGC	CGAA IGCAAUU	16949
1330	UUGCCUGC U CUACCAAG	1642	CUUGGUAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGCAA	16950
1332	GCCUGCUC U ACCAAGGC	1643	GCCUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAGGC	16951
1335	UGCUCUAC C AAGGCAAU	1644	AUUGCCU CUGAUGAG	GCCGUUAGGC	CGAA IUAGAGCA	16952
1336	GCUCUACC A AGGCAUA	1645	UAUUGCCU CUGAUGAG	GCCGUUAGGC	CGAA IGUAGAGC	16953
1341	ACCAAGGC A AUAGGAAG	1646	CUUCCUAU CUGAUGAG	GCCGUUAGGC	CGAA IUUUGGU	16954
1353	GGAGAAGC C AUCUUGAA	1647	UUAAGAU CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCC	16955
1354	GAAGAACC A UCUUGAAA	1648	UUUCAAGA CUGAUGAG	GCCGUUAGGC	CGAA IGUUCUUC	16956

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1357	GAACCAUC U UGAAAGAG	1649	CUCUUUCA CUGAUGAG	GCCGUUAGGC	CGAA IAUGGUUC	16957
1372	AGAAUAUC A AGUACGAA	1650	UUCGUACU CUGAUGAG	GCCGUUAGGC	CGAA IAUAUUCU	16958
1386	GAAGUGGC C AUUUUUGU	1651	ACAAAAA CUGAUGAG	GCCGUUAGGC	CGAA ICCACUUC	16959
1387	AAGUGGCC A UUUUUGUC	1652	GACAAAAA CUGAUGAG	GCCGUUAGGC	CGAA IGCCACUU	16960
1396	UUUUUGUC C AUGGACCA	1653	UGGUCCAU CUGAUGAG	GCCGUUAGGC	CGAA IACAAAAA	16961
1397	UUUUUGUC A UGGACCAA	1654	UUGGUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGACAAAA	16962
1403	CCAUGGAC C AACUACUG	1655	CAGUAGUU CUGAUGAG	GCCGUUAGGC	CGAA IUCCAUGG	16963
1404	CAUGGACC A ACUACUGU	1656	ACAGUAGU CUGAUGAG	GCCGUUAGGC	CGAA IGUCCAUG	16964
1407	GGACCAAC U ACUGUGGA	1657	UCCACAGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUCC	16965
1410	CCAACUAC U GUGGAGUC	1658	GACUCCAC CUGAUGAG	GCCGUUAGGC	CGAA IUAGUUGG	16966
1421	GGAGUCGC A CGGAACU	1659	AGUUUCCG CUGAUGAG	GCCGUUAGGC	CGAA ICGACUCC	16967
1429	ACGGAAAC U AUCCACA	1660	UGUGGAGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCCCGU	16968
1432	GAAACUAC U CCACACAG	1661	CUGUGUGG CUGAUGAG	GCCGUUAGGC	CGAA IUAGUUUC	16969
1434	AACUACUC C ACACAGGU	1662	ACCUGUGU CUGAUGAG	GCCGUUAGGC	CGAA IAGUAGUU	16970
1435	ACUACUCC A CACAGGUU	1663	AACCUGUG CUGAUGAG	GCCGUUAGGC	CGAA IGAGUAGU	16971
1437	UACUCCAC A CAGGUUGG	1664	CCAACCUG CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGUA	16972
1439	CUCCACAC A GGUUGGAG	1665	CUCCAACC CUGAUGAG	GCCGUUAGGC	CGAA IUGUGGAG	16973
1449	GUUGGAGC C ACUCAGGC	1666	GCCUGAGU CUGAUGAG	GCCGUUAGGC	CGAA ICUCCAAC	16974
1450	UUGGAGCC A CUCAGGCA	1667	UGCCUGAG CUGAUGAG	GCCGUUAGGC	CGAA IGCUCCAA	16975
1452	GGAGCCAC U CAGGCAGG	1668	CCUGCCUG CUGAUGAG	GCCGUUAGGC	CGAA IUGGUCCU	16976
1454	AGCCACUC A GGCAGGGA	1669	UCCUGGCC CUGAUGAG	GCCGUUAGGC	CGAA IAGUGGCU	16977
1458	ACUCAGGC A GGGAGAUU	1670	AAUCUCCC CUGAUGAG	GCCGUUAGGC	CGAA ICCUGAGU	16978
1468	GGAGAUUC A GCAUCACU	1671	AGUGAUGC CUGAUGAG	GCCGUUAGGC	CGAA IAAUCUCC	16979
1471	GAUUCAGC A UCACUCCU	1672	AGGAGUGA CUGAUGAG	GCCGUUAGGC	CGAA ICUGAAUC	16980
1474	UCAGCAUC A CUCCUGCG	1673	CGCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA IAUGCUGA	16981
1476	AGCAUCAC U CCUGCGGC	1674	GCCGCAGG CUGAUGAG	GCCGUUAGGC	CGAA IUGAUGCU	16982
1478	CAUCACUC C UGCGCGGC	1675	GCGCCGCA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGAUG	16983
1479	AUCACUCC U GCGGCGCC	1676	GCGCCGCC CUGAUGAG	GCCGUUAGGC	CGAA IAGUGAU	16984
1487	UGCGGCGC C UUCAUACA	1677	UGUAUGAA CUGAUGAG	GCCGUUAGGC	CGAA ICGCCGCA	16985
1488	GCGGCGCC U UCAUACAC	1678	GUGUAUGA CUGAUGAG	GCCGUUAGGC	CGAA IGCGCCGC	16986
1491	GCGCCUUC A UACACACU	1679	AGUGUGUA CUGAUGAG	GCCGUUAGGC	CGAA IAAGCGGC	16987
1495	CUUCAUAC A CACUAAAG	1680	CUUUGAGU CUGAUGAG	GCCGUUAGGC	CGAA IUAUGAAG	16988
1497	UCAUACAC A CUAAAGCU	1681	AGCUUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUGUAUGA	16989
1499	AUACACAC U AAAGCUUG	1682	CAAGCUUU CUGAUGAG	GCCGUUAGGC	CGAA IUGUGUAU	16990
1505	ACUAAAGC A UGAGAAU	1683	AUUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA ICUUAGU	16991
1527	GAGGUGAC A GUGGACUG	1684	CAGUCCAC CUGAUGAG	GCCGUUAGGC	CGAA IUCACCUC	16992
1534	CAGUGGAC U GUGAACCA	1685	UGGUUCAC CUGAUGAG	GCCGUUAGGC	CGAA IUCCACUG	16993
1541	CUGUGAAC C ACGGUCAG	1686	CUGACCGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCACAG	16994
1542	UGUGAACC A CGGUCAGG	1687	CCUGACCG CUGAUGAG	GCCGUUAGGC	CGAA IGUUCACA	16995
1548	CCACGGUC A GGAUUGA	1688	UCAAUCCC CUGAUGAG	GCCGUUAGGC	CGAA IACCUGUG	16996
1558	GGAUUGAC A CCAUUGCA	1689	UGCAUUGG CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUCC	16997
1560	AUUGACAC C AAUGCAUA	1690	UAUGCAUU CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAAU	16998
1561	UUGACACC A AUGCAUAC	1691	GUAUGCAU CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCAA	16999
1566	ACCAAUGC A UACUACGU	1692	ACGUAGUA CUGAUGAG	GCCGUUAGGC	CGAA ICAUUGGU	17000
1570	AUGCAUAC U ACGUGAUG	1693	CAUCACGU CUGAUGAG	GCCGUUAGGC	CGAA IUAUGCAU	17001
1581	GUGAUGAC U GUUGGAAC	1694	GUUCCAAC CUGAUGAG	GCCGUUAGGC	CGAA IUCAUCAC	17002
1590	GUUGGAAC A AAGACGUU	1695	AACGUCUU CUGAUGAG	GCCGUUAGGC	CGAA IUUCCAAC	17003
1600	AGACGUUC U UGGUCCAU	1696	AUGGACCA CUGAUGAG	GCCGUUAGGC	CGAA IAACGUCU	17004
1606	UCUUGGUU C AUCGUGAG	1697	CUCACGAU CUGAUGAG	GCCGUUAGGC	CGAA IACCAAGA	17005
1607	CUUGGUCC A UCGUGAGU	1698	ACUCACGA CUGAUGAG	GCCGUUAGGC	CGAA IGACCAAG	17006
1621	AGUGGUUC A UGGACCUC	1699	GAGGUCCA CUGAUGAG	GCCGUUAGGC	CGAA IAACCACU	17007
1627	UCAUGGAC C UCAACCUC	1700	GAGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUCCAUGA	17008
1628	CAUGGACC U CAACCUCU	1701	GGAGGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGUCCAUG	17009
1630	UGGACCUC A ACCUCCU	1702	AGGGAGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGGUCCA	17010
1633	ACCUCAAC C UCCUUGG	1703	CCAAGGGA CUGAUGAG	GCCGUUAGGC	CGAA IUUGAGGU	17011
1634	CCUCAACC U CCUUGGA	1704	UCCAAGGG CUGAUGAG	GCCGUUAGGC	CGAA IGUUGAGG	17012
1636	UCAACCUC C CUUGGAGC	1705	GCUCCAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGGUUGA	17013
1637	CAACUCC C UUGGAGCA	1706	UGCUCCAA CUGAUGAG	GCCGUUAGGC	CGAA IGAGGUUG	17014
1638	AACCUCCC U UGGAGCAG	1707	CUCGUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGGAGGUU	17015
1645	CUUGGAGC A GUGCUGGA	1708	UCCAGCAC CUGAUGAG	GCCGUUAGGC	CGAA ICUCCAAG	17016
1650	AGCAGUGC U GGAAGUAC	1709	GUACUCC CUGAUGAG	GCCGUUAGGC	CGAA ICACUGCU	17017
1659	GGAAGUAC U GUGUGGAG	1710	CUCCACAC CUGAUGAG	GCCGUUAGGC	CGAA IUACUCC	17018

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1672	GGAGGAAC A GAGAGACG	1711	CGUCUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUCC	17019
1700	UGAGGAAC C ACACGCCA	1712	UGGCGUGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUCA	17020
1701	GAGGAACC A CACGCCAC	1713	GUGGCGUG CUGAUGAG	GCCGUUAGGC	CGAA IGUCCUC	17021
1703	GGAACCAC A CGCCACGA	1714	UCGUGGCG CUGAUGAG	GCCGUUAGGC	CGAA IUGGUUCC	17022
1707	CCACACGC C ACGAAGCA	1715	UGCUUCGU CUGAUGAG	GCCGUUAGGC	CGAA ICGUGUGG	17023
1708	CACACGCC A CGAAGCAG	1716	CUGCUUCG CUGAUGAG	GCCGUUAGGC	CGAA ICGUGUG	17024
1715	CACGAAGC A GUCUGUGA	1717	UCACAGAC CUGAUGAG	GCCGUUAGGC	CGAA ICUUCGUG	17025
1719	AAGCAGUC U GUGAUAGC	1718	GCUAUCAC CUGAUGAG	GCCGUUAGGC	CGAA IACUGCUU	17026
1728	GUGAUAGC A UUGGGCUC	1719	GAGCCCAA CUGAUGAG	GCCGUUAGGC	CGAA ICUAUCAC	17027
1735	CAUUGGGC U CACAAGAG	1720	CUCUUGUG CUGAUGAG	GCCGUUAGGC	CGAA ICCAAUG	17028
1737	UUGGGCUC A CAAGAGGG	1721	CCCUCUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGCCCAA	17029
1739	GGGUCAC A AGAGGGAG	1722	CUCCUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCCC	17030
1749	GAGGGAGC U CUGCAUCA	1723	UGAUGCAG CUGAUGAG	GCCGUUAGGC	CGAA ICUCCUC	17031
1751	GGGAGCUC U GCAUCAAG	1724	CUUGAUGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCUC	17032
1754	AGCUCUGC A UCAAGCUU	1725	AAGCUUGA CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGCU	17033
1757	UCUGCAUC A AGCUUUGG	1726	CCAAAGCU CUGAUGAG	GCCGUUAGGC	CGAA IAUGCAGA	17034
1761	CAUCAAGC U UUGGCUGG	1727	CCAGCCAA CUGAUGAG	GCCGUUAGGC	CGAA ICUGAUG	17035
1767	GCUUUGGC U GGAGCCAU	1728	AUGGCUCC CUGAUGAG	GCCGUUAGGC	CGAA ICCAAAGC	17036
1773	GCUGGAGC C AUUCCUGU	1729	ACAGGAAU CUGAUGAG	GCCGUUAGGC	CGAA ICUCCAGC	17037
1774	CUGGAGCC A UUCCUGUG	1730	CACAGGAA CUGAUGAG	GCCGUUAGGC	CGAA IGCUC	17038
1778	AGCCAUUC C UGUGAAU	1731	AUCCACA CUGAUGAG	GCCGUUAGGC	CGAA IAAUGGCU	17039
1779	GCCAUUCC U GUGAAUU	1732	AAUCCAC CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGG	17040
1791	GAUUUUC A AGCAACAC	1733	GUGUUGCU CUGAUGAG	GCCGUUAGGC	CGAA IAAAAUUC	17041
1795	UUUCAAGC A ACACUGUC	1734	GACAGUGU CUGAUGAG	GCCGUUAGGC	CGAA ICUUGAAA	17042
1798	CAAGCAAC A CUGUCAAG	1735	CUUGACAG CUGAUGAG	GCCGUUAGGC	CGAA IUUGCUUG	17043
1800	AGCAACAC U GUCAAGUU	1736	AACUUGAC CUGAUGAG	GCCGUUAGGC	CGAA IUGUUGCU	17044
1804	ACACUGUC A AGUUGACG	1737	CGUCAACU CUGAUGAG	GCCGUUAGGC	CGAA IACAGUGU	17045
1820	GUCGGGUC A UUUGAAGU	1738	ACUUCAAA CUGAUGAG	GCCGUUAGGC	CGAA IACCCGAC	17046
1853	AAAUUGC A GUUGAAGG	1739	CCUUC AAC CUGAUGAG	GCCGUUAGGC	CGAA ICAAUUUU	17047
1866	AAGGAAC A ACCUAUGG	1740	CCAUAGGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCCCUU	17048
1869	GGAACAAC C UAUGGCGU	1741	ACGCCAU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUUC	17049
1870	GAACAACC U AUUGCGUC	1742	GACGCCAU CUGAUGAG	GCCGUUAGGC	CGAA IGUUGUUC	17050
1879	AUGGCGUC U GUUCAAG	1743	CUUUGAAC CUGAUGAG	GCCGUUAGGC	CGAA IACGCCAU	17051
1884	GUCUGUUC A AAGCTUUU	1744	AAAGCCUU CUGAUGAG	GCCGUUAGGC	CGAA IAAACAGAC	17052
1890	UCAAAGGC U UUCAAGUU	1745	AACUUGAA CUGAUGAG	GCCGUUAGGC	CGAA ICCUUGA	17053
1894	AGGCUUUC A AGUUUCUU	1746	AAGAAACU CUGAUGAG	GCCGUUAGGC	CGAA IAAAGCCU	17054
1901	CAAGUUUC U UGGACUC	1747	GAGUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IAAACUUG	17055
1908	CUUGGGAC U CCCGAGA	1748	UCUGCGGG CUGAUGAG	GCCGUUAGGC	CGAA IUCCCAAG	17056
1910	UGGGACUC C CGCAGACA	1749	UGUCUGCG CUGAUGAG	GCCGUUAGGC	CGAA IAGUCCCA	17057
1911	GGGACUCC C CGACACAC	1750	GUGUCUGC CUGAUGAG	GCCGUUAGGC	CGAA IGAGUCCC	17058
1914	ACUCCCGC A GACACAGG	1751	CCUGUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICGGGAGU	17059
1918	CCGCAGAC A CAGGUCAC	1752	GUGACCUG CUGAUGAG	GCCGUUAGGC	CGAA IUCUGCGG	17060
1920	GCAGACAC A GGUCACGG	1753	CCGUGACC CUGAUGAG	GCCGUUAGGC	CGAA IUGUCUGC	17061
1925	CACAGGUC A CGGCACUG	1754	CAGUGCCG CUGAUGAG	GCCGUUAGGC	CGAA IACUGUG	17062
1930	GUCACGGC A CUGUGGUG	1755	CACCACAG CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGAC	17063
1932	CACGGCAC U GUGUGUU	1756	AACACCAC CUGAUGAG	GCCGUUAGGC	CGAA IUGCCGUG	17064
1949	GGAAUUGC A GUACACUG	1757	CAGUGUAC CUGAUGAG	GCCGUUAGGC	CGAA ICAAUUCC	17065
1954	UGCAGUAC A CUGGCACG	1758	CGUGCCAG CUGAUGAG	GCCGUUAGGC	CGAA IUACUGCA	17066
1956	CAGUACAC U GGCACGGA	1759	UCCGUGCC CUGAUGAG	GCCGUUAGGC	CGAA IUGUACUG	17067
1960	ACACUGGC A CGGAUGGA	1760	UCCAUCG CUGAUGAG	GCCGUUAGGC	CGAA ICCAGUGU	17068
1970	GGAUGGAC C UUGCAAAG	1761	CUUUGCAA CUGAUGAG	GCCGUUAGGC	CGAA IUCCAUC	17069
1971	GAUGGACC U UGCAAAGU	1762	ACUUGCA CUGAUGAG	GCCGUUAGGC	CGAA IGUCCAUC	17070
1975	GACCUUGC A AAGUCCU	1763	AGGAACUU CUGAUGAG	GCCGUUAGGC	CGAA ICAAGGUC	17071
1982	CAAGUUC C UAUCUCGU	1764	ACGAGUA CUGAUGAG	GCCGUUAGGC	CGAA IAAUUU	17072
1983	AAAGUUC U AUCUCGUC	1765	GACGAGAU CUGAUGAG	GCCGUUAGGC	CGAA IGAACUUU	17073
1987	UUCCUAUC U CGUCAGUG	1766	CACUGACG CUGAUGAG	GCCGUUAGGC	CGAA IAUAGGAA	17074
1992	AUCUCGUC A GUGGCUUC	1767	GAAGCCAC CUGAUGAG	GCCGUUAGGC	CGAA IACGAGAU	17075
1998	UCAGUGGC U UCAUUGAA	1768	UUCAAUGA CUGAUGAG	GCCGUUAGGC	CGAA ICCACUGA	17076
2001	GUGGCUUC A UUGAACGA	1769	UCGUUCAA CUGAUGAG	GCCGUUAGGC	CGAA IAAGCCAC	17077
2011	UGAACGAC C UAACGCCA	1770	UGGCGUUA CUGAUGAG	GCCGUUAGGC	CGAA IUCGUUCA	17078
2012	GAACGACC U AACGCCAG	1771	CUGGCGUU CUGAUGAG	GCCGUUAGGC	CGAA IGUCGUUC	17079
2018	CCTAACGC C AGUGGGCA	1772	UGCCACU CUGAUGAG	GCCGUUAGGC	CGAA ICGUAGG	17080

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2019	CUAACGCC A GUGGGCAG	1773	CUGCCCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCGUUAG	17081
2026	CAGUGGGC A GAUUGGUC	1774	GACCAAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCCACUG	17082
2035	GAUUGGUC A CUGUCAAC	1775	GUUGACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACCAAUC	17083
2037	UUGGUCAC U GUCAACCC	1776	GGGUUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGACCAA	17084
2041	UCACUGUC A ACCCUUUU	1777	AAAAGGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACAGUGA	17085
2044	CUGUCAAC C CUUUUGUU	1778	AACAAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGACAG	17086
2045	UGUCAACC C UUUUGUUU	1779	AAACAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUUGACA	17087
2046	GUCAACCC U UUUUGUUC	1780	GAAACAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGUUGAC	17088
2055	UUUGUUUC A GUGGCCAC	1781	GUGGCCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAACAAA	17089
2061	UCAGUGGC C ACGGCCAA	1782	UUGGCCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCACUGA	17090
2062	CAGUGGCC A CGGCCAAC	1783	GUUGGCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCCACUG	17091
2067	GCCACGGC C AACGCUAA	1784	UUAGCGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCGUGGC	17092
2068	CCACGGCC A ACGCUAAG	1785	CUUAGCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCGUGGC	17093
2073	GCCAACGC U AAGGUCCU	1786	AGGACCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGUUGGC	17094
2080	CUAAGGUC C UGAUUGAA	1787	UUCAAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACCUUAG	17095
2081	UAAGGUCC U GAUUGAAU	1788	AUUCAAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGACCUUA	17096
2096	AUUGGAAC C ACCCUUUG	1789	CAAAGGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUCCAAU	17097
2097	UUGGAACC A CCCUUUGG	1790	CCAAAGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUUCCAA	17098
2099	GGAACCAC C CUUUGGAG	1791	CUCCAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGGUUCC	17099
2100	GAACCACC C UUUGGAGA	1792	UCUCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUGGUUC	17100
2101	AACCACCC U UUUGAGAC	1793	GUUCUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGUUGUU	17101
2110	UUGGAGAC U CAUACAUA	1794	UAUGUAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUCUCCAA	17102
2112	GGAGACUC A UACAUAGU	1795	ACUAUGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGUCUCC	17103
2116	ACUCAUAC A UAGUGGUG	1796	CACCACUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAUGAGU	17104
2128	UGGUGGGC A GAGGAGAA	1797	UUCUCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCCACCA	17105
2138	AGGAGAAC A ACAGAUCA	1798	UGAUCUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUCUCCU	17106
2141	AGAACAAC A GAUCAAUC	1799	GAUUGAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGUUCU	17107
2146	AACAGAU C AUCACCAU	1800	AUGGUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUCUGU	17108
2150	GAUCAUC A CUAUUGGC	1801	GCCAAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUUGAU	17109
2152	UCAAUAC C AUUGGCAC	1802	GUGCCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGAUUGA	17110
2153	CAAUACCC A UUGGCACA	1803	UGUGCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUGAUUG	17111
2159	CCAUUGGC A CAAGUCUG	1804	CAGACUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCAAUGG	17112
2161	AUUGGCAC A AGUCUGGA	1805	UCCAGACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGCCAAU	17113
2166	CACAAGUC U GGAAGCAG	1806	CUGCUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACUUGUG	17114
2173	CUGGAAGC A GCAUUGGC	1807	GCCAAUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUUCACG	17115
2176	GAAGCAGC A UUGGCAA	1808	UUUGCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGUUC	17116
2182	GCAUUGGC A AAGCCUUU	1809	AAAGCCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCAAUGC	17117
2187	GGCAAAGC C UUUACAAC	1810	GUUGUAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUUUGCC	17118
2188	GCAAAGCC U UUAACAAC	1811	GGUUGUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCUUUGC	17119
2193	GCCUUUAC A ACCACCCU	1812	AGGGUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAAAGGC	17120
2196	UUUACAAC C ACCCUCAA	1813	UUGAGGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGUAAA	17121
2197	UUACAACC A CCCUCAA	1814	UUUGAGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUUGUAA	17122
2199	ACAACCAC C CUCAAAGG	1815	CCUUUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGGUUGU	17123
2200	CAACCACC C UCAAAGGA	1816	UCCUUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUGGUUG	17124
2201	AACCACCC U CAAAGGAG	1817	CUCCUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGUGGUU	17125
2203	CCACCCUC A AAGGAGCG	1818	CGCUCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGGGUGG	17126
2213	AGGAGCGC A GAGACUAG	1819	CUAGUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGCUCUC	17127
2219	GCAGAGAC U AGCCGCUC	1820	GAGCGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUCUCUGC	17128
2223	AGACUAGC C GCUCUAGG	1821	CCUAGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUAGUCU	17129
2226	CUAGCCGC U CUAGGAGA	1822	UCUCCUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGGCUAG	17130
2228	AGCCGCUC U AGGAGACA	1823	UGUCUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGCGGCU	17131
2236	UAGGAGAC A CAGCUUGG	1824	CCAAGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUCUCCUA	17132
2238	GGAGACAC A GCUUGGGA	1825	UCCCAAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGUCUCC	17133
2241	GACACAGC U UGGGACUU	1826	AAGUCCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGUGUC	17134
2248	CUUGGGAC U UUGGAUCA	1827	UGAUCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUCCCAAG	17135
2256	UUUGGAUC A GUUGGAGG	1828	CCUCCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUCCAAA	17136
2272	GGUGUUC A CCUCAGUU	1829	AACUGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAACACCC	17137
2274	GUGUUCAC C UCAGUUGG	1830	CCAACUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGAACAC	17138
2275	UGUUCACC U CAGUUGGG	1831	CCCAACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUGAACA	17139
2277	UUCACCUC A GUUGGAA	1832	UUCCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGGUGAA	17140
2289	GGGAAGGC U GUCCAUA	1833	UGAUGGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCUUCCC	17141
2293	AGGCUGUC C AUCAAGUG	1834	CACUUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACAGCCU	17142

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2294	GGCUGUCC A UCAAGUGU	1835	ACACUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACAGCC	17143
2297	UGUCCAUC A AGUGUUCG	1836	CGAACACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGGACA	17144
2313	GGAGGAGC A UUCCGCUC	1837	GAGCGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCCUCC	17145
2317	GAGCAUUC C GCUCACUG	1838	CAGUGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUGCUC	17146
2320	CAUUCGCG U CACUGUUC	1839	GAACAGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGAUUG	17147
2322	UUCGCGUC A CUGUUCGG	1840	CCGAACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCGGAA	17148
2324	CCGCUCAC U GUUCGGAG	1841	CUCCGAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAGCGG	17149
2335	UCGGAGGC A UGUCCUGG	1842	CCAGGACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUCCGA	17150
2340	GGCAUGUC C UGGAUAAC	1843	GUUAUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAUGCC	17151
2341	GCAUGUCC U GGAUAACG	1844	CGUUAUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACAUGC	17152
2351	GAUAACGC A AGGAUUGC	1845	GCAAUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUUAUC	17153
2360	AGGAUUGC U GGGGGCUC	1846	GAGCCCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAUCCU	17154
2367	CUGGGGCG U CUCCUGUU	1847	AACAGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCCCAG	17155
2369	GGGGGCUC U CUGUUGU	1848	ACAACAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCCCC	17156
2371	GGGCUCUC C UGUUGUGG	1849	CCACAACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGCCC	17157
2372	GGCUCUCC U GUUGUGGA	1850	UCCACAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGAGCC	17158
2386	GGAUGGGC A UCAAUGCU	1851	AGCAUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCCAUCC	17159
2389	UGGGCAUC A AUGCUCGU	1852	ACGAGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGCCCA	17160
2394	AUCAAUGC U CGUGAUAG	1853	CUAUCACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUUGAU	17161
2406	GAUAGGUC C AUAGCUCU	1854	AGAGCUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCUAUC	17162
2407	AUAGGUCC A UAGCUCUC	1855	GAGAGCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCUAU	17163
2412	UCCAUAGC U CUCACGUU	1856	AACGUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAUGGA	17164
2414	CAUAGCUC U CACGUUUC	1857	GAAACGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCUAUG	17165
2416	UAGCUCUC A CGUUUCUC	1858	GAGAAACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGCUA	17166
2423	CACGUUUC U CGCAGUUG	1859	CAACUGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAACGUG	17167
2427	UUUCUCGC A GUUGGAGG	1860	CCUCCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAGAAA	17168
2441	AGGAGUUC U GCUCUUC	1861	GGAAGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACUCCU	17169
2444	AGUUCUGC U CUUCCUCU	1862	AGAGGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGAACU	17170
2446	UUCUGGUC U UCUCUCC	1863	GGAGAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGCAGAA	17171
2449	UGCUCUUC C UCUCGUG	1864	CACGGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGCA	17172
2450	GCUCUUC C UCUCGUG	1865	UCACGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGAGC	17173
2452	UCUUCUC U CCGUGAAC	1866	GUUCACGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAAGA	17174
2454	UUCUCUC C GUAAACGU	1867	ACGUUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGGAA	17175
2465	GAACGUGC A CGCUGACA	1868	UGUCAGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACGUUC	17176
2469	GUGCACGC U GACACUGG	1869	CCAGUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGGCAC	17177
2473	ACGCUGAC A UGGGUGU	1870	ACACCCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAGCGU	17178
2475	CGUGACAC U GGGUGUGC	1871	GCACACCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUCAGC	17179
2484	GGGUGUGC C AUAGACAU	1872	AUGUCUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACACCC	17180
2485	GGUGUGCC A UAGACAUC	1873	GAUGUCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACACCC	17181
2491	CCAUGAGC A UCAGCCGG	1874	CCGGCUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUAUGG	17182
2494	UAGACAUC A GCCGGCAA	1875	UUGCCGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCUA	17183
2497	ACAUCAGC C GGCAAGAG	1876	CUCUUGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGAUGU	17184
2501	CAGCCGGC A AGAGCUGA	1877	UCAGCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGGCUC	17185
2507	GCAAGAGC U GAAUGUG	1878	CACAGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUUGC	17186
2530	GAGUGUUC A UACACAU	1879	AUUGUGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAACACUC	17187
2534	GUUCAUAC A CAAUGAUG	1880	CAUCAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAUGAAC	17188
2536	UCAUACAC A AUGAUGUG	1881	CACAUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUAUGA	17189
2550	GUGGAGGC U UGGAUGGA	1882	UCCAUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUCCAC	17190
2560	GGAUGGAC C GGUACAAG	1883	CUUGUACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCAUC	17191
2566	ACCGGUAC A AGUAUUA	1884	GUAAUACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACCGGU	17192
2575	AGUAUUA C UGAAACG	1885	CGUUAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAAUACU	17193
2576	GUUAUACC C UGAAACGC	1886	GCGUUAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUAUAC	17194
2577	UAUUAACC U GAAACGCC	1887	GGCGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUAUA	17195
2585	UGAAACGC C ACAAGGCC	1888	GGCCUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUUA	17196
2586	GAAACGCC C CAAGCCU	1889	AGGCCUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGUUUC	17197
2588	AACGCCAC A AGCCUAG	1890	CUAGCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCGUU	17198
2593	CACAAGGC C UAGCCAAG	1891	CUUGGCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUUGUG	17199
2594	ACAAGGCC U AGCCAAGA	1892	UCUUGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCUUGU	17200
2598	GGCCUAGC C AAGAUCAU	1893	AUGAUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAGGCC	17201
2599	GCCUAGCC A AGAUCAU	1894	AAUGAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUAGGC	17202
2605	CCAAGAUC A UUCAGAAA	1895	UUUCUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCUGG	17203
2609	GAUCAUUC A GAAAGCUC	1896	GAGCUUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUGAUC	17204

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2616	CAGAAAGC U CAUAAGGA	1897	UCCUUAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUUCUG	17205
2618	GAAAGCUC A UAAGGAAG	1898	CUUCCUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCUUUC	17206
2639	GUGCGGUC U ACGAUCAG	1899	CUGAUCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCGCAC	17207
2646	CUACGAUC A GUUUCAG	1900	CUGGAAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCGUAG	17208
2652	UCAGUUUC C AGACUGGA	1901	UCCAGUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAACUGA	17209
2653	CAGUUUCC A GACUGGAG	1902	CUCCAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAACUG	17210
2657	UUCAGAC U GGAGCAUC	1903	GAUGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUGGAA	17211
2663	ACUGGAGC A UCAAAUGU	1904	ACAUTUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCCAGU	17212
2666	GGAGCAUC A AAUGUGG	1905	CCCACAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCCUCC	17213
2679	UGGGAAGC A GUGAAGGA	1906	UCCUUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUCCCA	17214
2693	GGACGAGC U GAACACUC	1907	GAGUGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCGUCC	17215
2698	AGCUGAAC A CUCUUUG	1908	CAAAAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCAGCU	17216
2700	CUGAACAC U CUUUGAA	1909	UUCAAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUUCAG	17217
2702	GAACACUC U UUUGAAGG	1910	CCUUCAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGUUC	17218
2725	GUGUGGAC C UUGUGUC	1911	GACACUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCACAC	17219
2726	UGUGGACC U UAGUGUCG	1912	CGACACUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCCACA	17220
2747	UGAGAAAC A GGAGGAA	1913	UUCCCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUCUCA	17221
2761	GAAUGUAC A AGUCAGCA	1914	UGCUGACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACAUUC	17222
2766	UACAAGUC A GCACCUAA	1915	UUAGGUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUUGUA	17223
2769	AAGUCAGC A CCUAAACG	1916	CGUUUAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGACTU	17224
2771	GUCAGCAC C UAAACGCC	1917	GGCGUUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCUGAC	17225
2772	UCAGCACC U AAACGCCU	1918	AGGCGUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGCUGA	17226
2779	CUAAACGC C UCACCGCC	1919	GGCGGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUUUAG	17227
2780	UAAACGCC U CACCGCCA	1920	UGGCGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUUUUA	17228
2782	AACGCCUC A CCGCCACC	1921	GGUGGCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGCGUU	17229
2784	CGCCUCAC C GCCACCAC	1922	GUGGUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAGGCG	17230
2787	CUCACCGC C ACCACGGA	1923	UCCGUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGUGAG	17231
2788	UCACCGCC A CCACGGAA	1924	UUCGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGUGA	17232
2790	ACCGCCAC C ACGGAAAA	1925	UUUUCGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCGGU	17233
2791	CCGCCACC A CGGAAAAA	1926	UUUUUCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGGCGG	17234
2812	AAAUUGGC U GGAAGGCC	1927	GGCCUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAAUUU	17235
2820	UGGAAGGC C UGGGGAAA	1928	UUUCCCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUUCCA	17236
2821	GGAAAGGC U GGGGAAAG	1929	CUUUCCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCUUCU	17237
2844	UUUUUUGC A CCAGAACU	1930	AGUUCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAUUA	17238
2846	AUUUGCAC C AGAACUCG	1931	CGAGUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCAAAU	17239
2847	UUUGCACC A GAACUCGC	1932	GCGAGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGCAAA	17240
2852	ACCAGAAC U CGCCAACA	1933	UGUUGGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUGGU	17241
2856	GAACUCGC C AACAAACAC	1934	GUGUUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAGUUC	17242
2857	AACUCGCC A ACAACACC	1935	GGUGUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAGUUC	17243
2860	UCGCCAAC A ACACCUUU	1936	AAAGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGCGCA	17244
2863	CCAACAAC A CUUUGUG	1937	CACAAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGUUGG	17245
2865	AACAACAC C UUUGUGGU	1938	ACCACAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGUUGU	17246
2866	ACAACACC U UUGUGGUU	1939	AACCACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUUGU	17247
2882	UGAUGGUC C GGAGACCA	1940	UGGUCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCAUCA	17248
2889	CCGGAGAC C AAGGAAUG	1941	CAUUCUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUCCGG	17249
2890	CGGAGACC A AGGAAUGU	1942	ACAUUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCUCCG	17250
2900	GGAAUGUC C GACUCAGA	1943	UCUGAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAUUCC	17251
2904	UGUCCGAC U CAGAAUCG	1944	CGAUUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGGACA	17252
2906	UCCGACUC A GAAUCGCG	1945	CGCGAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUCGGA	17253
2916	AAUCGCGC U UGGAAUAG	1946	CUAUUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGCGAUU	17254
2926	GGAAUAGC U UAGAAGUG	1947	CACUUCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAUUCU	17255
2954	AUUUGGUC U CACCAGCA	1948	UGCUGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCAAAU	17256
2956	UUGGUCUC A CCAGCACU	1949	AGUGCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGACCAA	17257
2958	GGUCUCAC C AGCACUCG	1950	CGAGUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAGACC	17258
2959	GUCUCACC A GCACUCGG	1951	CCGAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGAGAC	17259
2962	UCACCAGC A CUCGAUG	1952	CAUCCGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGGUGA	17260
2964	ACCAGCAC U CGGAUGUU	1953	AACAUCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCUGGU	17261
2974	GGAUGUUC C UGAAGGUC	1954	GACCUUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACAUCU	17262
2975	GAUGUUCU U GAAGGUCA	1955	UGACCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACAUC	17263
2983	UGAAGGUC A GAGAGAGC	1956	GCUCUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCUUCA	17264
2992	GAGAGAGC A ACACAACU	1957	AGUUGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUCUC	17265
2995	AGAGCAAC A CAACUGAA	1958	UUCAGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGUCUCU	17266

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2997	AGCAACAC A ACUGAAUG	1959	CAUUCAGU CUGAUGAG	GCCGUUAGGC	CGAA IUGUUGCU	17267
3000	AACACAAC U GAAUGUGA	1960	UCACAUUC CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGUU	17268
3010	AAUGUGAC U CGAAGAUC	1961	GAUCUUCG CUGAUGAG	GCCGUUAGGC	CGAA IUCACAUU	17269
3019	CGAAGAUC A UUGGAACG	1962	CGUCCAA CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUCG	17270
3030	GGAACGGC U GUCAAGAA	1963	UUCUUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICCGUUCC	17271
3034	CGGCUGUC A AGAACAA	1964	GUUGUUCU CUGAUGAG	GCCGUUAGGC	CGAA IACAGCCG	17272
3040	UCAAGAAC A ACUUGGCG	1965	CGCCAAGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUGA	17273
3043	AGAACAAC U UGGCGAUC	1966	GAUCGCCA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUUCU	17274
3052	UGGCGAUC C ACAGUGAC	1967	GUACUGU CUGAUGAG	GCCGUUAGGC	CGAA IAUCCGCA	17275
3053	GGCGAUCC A CAGUGACC	1968	GGUCACUG CUGAUGAG	GCCGUUAGGC	CGAA IGAUCGCC	17276
3055	CGAUCCAC A GUGACCG	1969	CAGGUCAC CUGAUGAG	GCCGUUAGGC	CGAA IUGGAUCG	17277
3061	ACAGUGAC C UGUCCUUAU	1970	AUAGGACA CUGAUGAG	GCCGUUAGGC	CGAA IUCACUGU	17278
3062	CAGUGACC U GUCCUAUU	1971	AAUAGGAC CUGAUGAG	GCCGUUAGGC	CGAA IGUCACUG	17279
3066	GACCUGUC C UAUUGGAU	1972	AUCCAUA CUGAUGAG	GCCGUUAGGC	CGAA IACAGGUC	17280
3067	ACCUGUC U AUUGGAUU	1973	AAUCCAUA CUGAUGAG	GCCGUUAGGC	CGAA IGACAGGU	17281
3082	UUGAAAGC A GGCUCAAU	1974	AUUGAGCC CUGAUGAG	GCCGUUAGGC	CGAA ICUUCCAA	17282
3086	AAGCAGGC U CAAUGAUA	1975	UAUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA ICCUGCUU	17283
3088	GCAGGCUC A AUGAUACG	1976	CGUAUCAU CUGAUGAG	GCCGUUAGGC	CGAA IAGCCUGC	17284
3104	GUGGAAGC U UGAAAGGG	1977	CCCUUUCA CUGAUGAG	GCCGUUAGGC	CGAA ICUUCCAC	17285
3114	GAAAGGGC A GUUCUGGG	1978	CCCAGAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCCUUUC	17286
3119	GGCAGUUC U GGGUGAAG	1979	CUUCACCC CUGAUGAG	GCCGUUAGGC	CGAA IAAUCGCC	17287
3130	GUGAAGUC A AAUCAUGU	1980	ACAUGAUU CUGAUGAG	GCCGUUAGGC	CGAA IACUUCAC	17288
3135	GUCAAUUC A UGUACGUG	1981	CACGUACA CUGAUGAG	GCCGUUAGGC	CGAA IAUUUGAC	17289
3146	UACGUGGC C UGAGACGC	1982	GCGUCUCA CUGAUGAG	GCCGUUAGGC	CGAA ICCACGUA	17290
3147	ACGUGGCC U GAGACGCA	1983	UGCGUCUC CUGAUGAG	GCCGUUAGGC	CGAA IGCCACGU	17291
3155	UGAGACGC A UACCUUGU	1984	ACAAGGUA CUGAUGAG	GCCGUUAGGC	CGAA ICGUCUCA	17292
3159	ACGCAUAC C UUGUGGGG	1985	CCCCACAA CUGAUGAG	GCCGUUAGGC	CGAA IUAUGCGU	17293
3160	CGCAUACC U UGUGGGGC	1986	GCCCCACA CUGAUGAG	GCCGUUAGGC	CGAA IGUAUGCG	17294
3178	AUGGAAUC C UUGAGAGU	1987	ACUCUCA CUGAUGAG	GCCGUUAGGC	CGAA IAUUCCAU	17295
3179	UGGAAUCC U UGAGAGUG	1988	CACUCUCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUCCAA	17296
3190	AGAGUGAC U UGAUAUA	1989	UAUUAUCA CUGAUGAG	GCCGUUAGGC	CGAA IUCACUCU	17297
3200	GAUAAUAC C AGUCACAC	1990	GUGUGACU CUGAUGAG	GCCGUUAGGC	CGAA IUAUUAUC	17298
3201	AUAUAUAC A GUCACACU	1991	AGUGUGAC CUGAUGAG	GCCGUUAGGC	CGAA IGUAUUAU	17299
3205	UACCAGUC A CACUGGCG	1992	CGCCAGUG CUGAUGAG	GCCGUUAGGC	CGAA IACUGGUA	17300
3207	CCAGUCAC A CUGGCCGG	1993	CCCGCCAG CUGAUGAG	GCCGUUAGGC	CGAA IUGACUGG	17301
3209	AGUCACAC U GGCGGGAC	1994	GUCCCGCC CUGAUGAG	GCCGUUAGGC	CGAA IUGUGACU	17302
3218	GGCGGGAC C ACGAAGCA	1995	UGCUUCGU CUGAUGAG	GCCGUUAGGC	CGAA IUCCCGCC	17303
3219	GCGGGACC A CGAAGCAA	1996	UUGCUUCG CUGAUGAG	GCCGUUAGGC	CGAA IGUCUCCG	17304
3226	CACGAAGC A AUCACAAU	1997	AUUGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ICUUCGUG	17305
3230	AAGCAAUC A CAAUCGGA	1998	UCCGAUUG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGCUU	17306
3232	GCAAUAC A AUCGGAGA	1999	UCUCCGAU CUGAUGAG	GCCGUUAGGC	CGAA IUGAUUGC	17307
3242	UCGGAGAC C UGGGUACA	2000	UGUACCCA CUGAUGAG	GCCGUUAGGC	CGAA IUCUCCGA	17308
3243	CGGAGACC U GGGUACAA	2001	UUGUACCC CUGAUGAG	GCCGUUAGGC	CGAA IGUCUCCG	17309
3250	CUGGGUAC A AGACACAA	2002	UUGUGUCU CUGAUGAG	GCCGUUAGGC	CGAA IUACCCAG	17310
3255	UACAAGAC A CAAAACCA	2003	UGGUUUUG CUGAUGAG	GCCGUUAGGC	CGAA IUCUUGUA	17311
3257	CAAGACAC A AAACCAGG	2004	CCUGGUUU CUGAUGAG	GCCGUUAGGC	CGAA IUGUCUUG	17312
3262	CACAAAC C AGGGCCCA	2005	UGGGCCCU CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGUG	17313
3263	ACAAAACC A GGGCCCAU	2006	AUGGGCCC CUGAUGAG	GCCGUUAGGC	CGAA IGUUUUGU	17314
3268	ACCAGGGC C CAUGGGAC	2007	GUCCCAUG CUGAUGAG	GCCGUUAGGC	CGAA ICCCUUGU	17315
3269	CCAGGGCC C AUGGGACG	2008	CGUCCCAU CUGAUGAG	GCCGUUAGGC	CGAA IGCCCUUG	17316
3270	CAGGGCCC A UGGGACGA	2009	UCGUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IGGCCUUG	17317
3283	ACGAAGGC C GGUAGAG	2010	CUCUACCC CUGAUGAG	GCCGUUAGGC	CGAA ICCUUCGU	17318
3298	AGAUUGAC U UCGAUUAC	2011	GUAAUCGA CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUCU	17319
3307	UCGAUUAU C GCCCAGGA	2012	UCCUGGGC CUGAUGAG	GCCGUUAGGC	CGAA IUAUCCGA	17320
3310	AUUACUGC C CAGGAACU	2013	AGUCCUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGUAU	17321
3311	UUACUGCC C AGGAACUA	2014	UAGUUCU CUGAUGAG	GCCGUUAGGC	CGAA IGCAGUAA	17322
3312	UACUGCCC A GGAACUAC	2015	GUAGUUC CUGAUGAG	GCCGUUAGGC	CGAA IGGCAGUA	17323
3318	CCAGGAAC U ACGGUCAC	2016	GUGACCGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUGG	17324
3325	CUACGGUC A CCCUGAGU	2017	ACUCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IACCGUAG	17325
3327	ACGGUCAC C CUGAGUGA	2018	UCACUCAG CUGAUGAG	GCCGUUAGGC	CGAA IUGACCGU	17326
3328	CGGUCACC C UGAGUGAG	2019	CUCACUCA CUGAUGAG	GCCGUUAGGC	CGAA IGUGACCG	17327
3329	GGUCACCC U GAGUGAGA	2020	UCUCACUC CUGAUGAG	GCCGUUAGGC	CGAA IGGUGACC	17328

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3298	AGAUGAC U UCGAUUAC	2011	GUAUUCGA CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUCU	17319
3307	UCGAUUAU U GCCCAGGA	2012	UCCUGGGC CUGAUGAG	GCCGUUAGGC	CGAA IUAAUCGA	17320
3310	AUUACUGC C CAGGAACU	2013	AGUUCUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGUAAU	17321
3311	UUACUGCC C AGGAACUA	2014	UAGUUCU CUGAUGAG	GCCGUUAGGC	CGAA IGCAGUAA	17322
3312	UACUGCCC A GGAACUAC	2015	GUAGUCC CUGAUGAG	GCCGUUAGGC	CGAA IGGCAGUA	17323
3318	CCAGGAAC U ACGGUCAC	2016	GUGACCGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUGG	17324
3325	CUACGGUC A CCUGAGU	2017	ACUCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IACCGUAG	17325
3327	ACGGUAC C CUGAGUGA	2018	UCACUCAG CUGAUGAG	GCCGUUAGGC	CGAA IUGACCGU	17326
3328	CGGUCACC C UGAGUGAG	2019	CUCACUCA CUGAUGAG	GCCGUUAGGC	CGAA IGUGACCG	17327
3329	GGUCACCC U GAGUGAGA	2020	UCUCACUC CUGAUGAG	GCCGUUAGGC	CGAA IGGUGACC	17328
3340	GUGAGAGC U GCGACAC	2021	GUGUCCGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCAC	17329
3347	CUGCGGAC A CCGUGGAC	2022	GUCCACGG CUGAUGAG	GCCGUUAGGC	CGAA IUCCGACG	17330
3349	GCGGACAC C GUGGACCU	2023	AGGUCCAG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCCGC	17331
3356	CCGUGGAC C UGCCACUC	2024	GAGUGGCA CUGAUGAG	GCCGUUAGGC	CGAA IUCCACGG	17332
3357	CGUGGACC U GCCACUCG	2025	CGAGUGGC CUGAUGAG	GCCGUUAGGC	CGAA IGUCCACG	17333
3360	GGACUGC C ACUCGCAC	2026	GUGCGAGU CUGAUGAG	GCCGUUAGGC	CGAA ICAGGUCC	17334
3361	GACUGCC A CUCGCACC	2027	GGUGCGAG CUGAUGAG	GCCGUUAGGC	CGAA IGCAGGUC	17335
3363	CCUGCCAC U CGCACCAC	2028	GUGGUGCG CUGAUGAG	GCCGUUAGGC	CGAA IUGGCAGG	17336
3367	CCACUCGC A CCACCACA	2029	UGUGGGG CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGG	17337
3369	ACUCGCAC C ACCACAGA	2030	UCUGUGGU CUGAUGAG	GCCGUUAGGC	CGAA IUGCGAGU	17338
3370	CUCGCACC A CCACAGAG	2031	CUCUGUGG CUGAUGAG	GCCGUUAGGC	CGAA IGUGCGAG	17339
3372	CGCACCAC C ACAGAGAG	2032	CUCUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGCG	17340
3373	GCACCACC A CAGAGAGC	2033	GCUCUCUG CUGAUGAG	GCCGUUAGGC	CGAA IGUGGUGC	17341
3375	ACCACAC A GAGAGCGG	2034	CCGUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUGUGUGU	17342
3396	UUGAUUAC A GAUUGGUG	2035	CACCAUUC CUGAUGAG	GCCGUUAGGC	CGAA IUUAUCAA	17343
3406	AUUGGUGC U GCAGGAGC	2036	GCUCUGC CUGAUGAG	GCCGUUAGGC	CGAA ICACCAU	17344
3409	GGUGUGC A GGAGCUGC	2037	GCAGCUC CUGAUGAG	GCCGUUAGGC	CGAA ICAGCAC	17345
3415	GCAGGAGC U GCACCUUA	2038	UAAGGUGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGC	17346
3418	GGAGCUGC A CCUUAACA	2039	UGGUAAGG CUGAUGAG	GCCGUUAGGC	CGAA ICAGCUC	17347
3420	AGCUGCAC C UUACCACC	2040	GGUGGUA CUGAUGAG	GCCGUUAGGC	CGAA IUGCAGCU	17348
3421	GCUGCACC U UACCACCA	2041	UGGUGGUA CUGAUGAG	GCCGUUAGGC	CGAA IGUGCAGC	17349
3425	CACCUUAC C ACCACUGC	2042	GCAGUGGU CUGAUGAG	GCCGUUAGGC	CGAA IUAAGGUG	17350
3426	ACCUUACC A CCACUGCG	2043	CGCAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IGUAGGU	17351
3428	CUUACCAC C ACUGCGCU	2044	AGCGCAGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGUAAG	17352
3429	UUACCAC C AUCGCGUA	2045	UAGCGCAG CUGAUGAG	GCCGUUAGGC	CGAA IGUGGUA	17353
3431	ACCACCAC U GCGUACC	2046	GGUAGCG CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGGU	17354
3436	CACUGCGC U ACCAAACU	2047	AGUUUGGU CUGAUGAG	GCCGUUAGGC	CGAA ICGCAGUG	17355
3439	UGCGUAC C AAACUGAC	2048	GUAGUUU CUGAUGAG	GCCGUUAGGC	CGAA IUAGCGCA	17356
3440	GCGCUACC A AACUGACA	2049	UGUCAGU CUGAUGAG	GCCGUUAGGC	CGAA IGUAGCGC	17357
3444	UACCAAAC U GACAGCGG	2050	CCGUCUG CUGAUGAG	GCCGUUAGGC	CGAA IUUUGUA	17358
3448	AAACUGAC A CGGCUGU	2051	ACAGCCGC CUGAUGAG	GCCGUUAGGC	CGAA IUCAGUUU	17359
3454	ACAGCGGC U GUUGGUAU	2052	AUACCAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCGCUGU	17360
3475	UGGAGAU C A GACCACAG	2053	CUGUGGUC CUGAUGAG	GCCGUUAGGC	CGAA IAUCUCCA	17361
3479	GAUCAGAC C ACAGAGAC	2054	GUCUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IUCUGAUC	17362
3480	AUCAGACC A CAGAGACA	2055	UGUCUCUG CUGAUGAG	GCCGUUAGGC	CGAA IGUCUGAU	17363
3482	CAGACCAC A GAGACAUG	2056	CAUGUCUG CUGAUGAG	GCCGUUAGGC	CGAA IUGGUCUG	17364
3488	ACAGAGAC A UGAUGAAA	2057	UUUAUCA CUGAUGAG	GCCGUUAGGC	CGAA IUCUCUGU	17365
3501	GAAGAGAC C CUCGUGCA	2058	UGCACGAG CUGAUGAG	GCCGUUAGGC	CGAA IUCUUUUC	17366
3502	AAAAGACC C UCGUGCAG	2059	CUGCACGA CUGAUGAG	GCCGUUAGGC	CGAA IGUCUUUU	17367
3503	AAAGACCC U CGUGCAGU	2060	ACUGCACG CUGAUGAG	GCCGUUAGGC	CGAA IGGUCUUU	17368
3509	CCUCGUGC A GUCACAAG	2061	CUUGUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICACGAGG	17369
3513	GUGCAGUC A CRAUGGAA	2062	UUCACUUG CUGAUGAG	GCCGUUAGGC	CGAA IACUGCAC	17370
3515	GCAGUCAC A AGUGAAUG	2063	CAUUCACU CUGAUGAG	GCCGUUAGGC	CGAA IUGACUGC	17371
3525	GUGAAUGC U UAUAAUGC	2064	GCAUUAUA CUGAUGAG	GCCGUUAGGC	CGAA ICAUUCAC	17372
3534	UAUAAUGC U GAUAUGAU	2065	AUCAUAUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUUAUA	17373
3547	UGAUUGAC C CUUUCAG	2066	CUGAAAAG CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUCA	17374
3548	GAUUGACC C UUUUCAGU	2067	ACUGAAA CUGAUGAG	GCCGUUAGGC	CGAA IGUCAAUC	17375
3549	AUUGACCC U UUCAGUU	2068	AACUGAAA CUGAUGAG	GCCGUUAGGC	CGAA IUGCAAU	17376
3554	CCUUUUUC A GUUGGGCC	2069	GGCCCAAC CUGAUGAG	GCCGUUAGGC	CGAA IAAAAGGG	17377
3562	AGUUGGGC C UUCUGGUC	2070	GACCAGAA CUGAUGAG	GCCGUUAGGC	CGAA ICCCAACU	17378
3563	GUUGGGCC U UCUGGUC	2071	CGACCAGA CUGAUGAG	GCCGUUAGGC	CGAA IGCCCAAC	17379

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3566	GGGCCUUC U GGUCGUGU	2072	ACACGACC CUGAUGAG	GCCGUUAGGC	CGAA IAAGGCC	17380
3577	UCGUGUUC U UGGCCACC	2073	GGUGGCCA CUGAUGAG	GCCGUUAGGC	CGAA IAACACGA	17381
3582	UUCUUGGC C ACCCAGGA	2074	UCCUGGGU CUGAUGAG	GCCGUUAGGC	CGAA ICCAAGAA	17382
3583	UCUUGGCC A CCCAGGAG	2075	CUCCUGGG CUGAUGAG	GCCGUUAGGC	CGAA IGCCAAGA	17383
3585	UUGGCCAC C CAGGAGGU	2076	ACCUCCTG CUGAUGAG	GCCGUUAGGC	CGAA IUGGCCAA	17384
3586	UGGCCACC C AGGAGGUC	2077	GACCUCCT CUGAUGAG	GCCGUUAGGC	CGAA IGUGGCCA	17385
3587	GGCCACCC A GGAGGUCC	2078	GGACCUC CUGAUGAG	GCCGUUAGGC	CGAA IGGUGGCC	17386
3595	AGGAGGUC C UUCGCAAG	2079	CUUGCGAA CUGAUGAG	GCCGUUAGGC	CGAA IACCUCCT	17387
3596	GGAGGUCC U UCGCAAGA	2080	UCUUGCGA CUGAUGAG	GCCGUUAGGC	CGAA IGACCUC	17388
3601	UCCUUCGC A AGAGGUGG	2081	CCACCUCU CUGAUGAG	GCCGUUAGGC	CGAA ICGAAGGA	17389
3612	AGGUGGAC A GCCAAGAU	2082	AUCUUGGC CUGAUGAG	GCCGUUAGGC	CGAA IUCCACCU	17390
3615	UGGACAGC C AAGAUCAG	2083	CUGAUCU CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCCA	17391
3616	GGACAGCC A AGAUCAGC	2084	CGUAUCU CUGAUGAG	GCCGUUAGGC	CGAA IGCUGUCC	17392
3622	CCAAGAUC A GCAUGCCA	2085	UGGCAUGC CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUUG	17393
3625	AGAUCAGC A UGCCAGCU	2086	AGCUGGCA CUGAUGAG	GCCGUUAGGC	CGAA ICUGAUCU	17394
3629	CAGCAUGC C AGCUAUAC	2087	GUUAAGCU CUGAUGAG	GCCGUUAGGC	CGAA ICAUGCUG	17395
3630	AGCAUGCC A GCUAUACU	2088	AGUAUAGC CUGAUGAG	GCCGUUAGGC	CGAA ICGAUGCU	17396
3633	AUGCCAGC U AUACUGAU	2089	AUCAGUAU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGCAU	17397
3638	AGCUAUAC U GAUUGCUC	2090	GAGCAAUC CUGAUGAG	GCCGUUAGGC	CGAA IUUAAGCU	17398
3645	CUGAUUGC U CUGCUAGU	2091	ACUAGCAG CUGAUGAG	GCCGUUAGGC	CGAA ICAUACAG	17399
3647	GAUUGCUC U GUGAGUCC	2092	GGACUAGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCAAUC	17400
3650	UGCUCUGC U AGUCCUGG	2093	CCAGGACU CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGCA	17401
3655	UGCUGAUC C UGGUGUUU	2094	AAACACCA CUGAUGAG	GCCGUUAGGC	CGAA IACUAGCA	17402
3656	GCUAGUCC U GGUGUUUG	2095	CAAACACC CUGAUGAG	GCCGUUAGGC	CGAA IGACUAGC	17403
3670	UUGGGGGC A UACUUAAC	2096	GUAAAGUA CUGAUGAG	GCCGUUAGGC	CGAA ICCCCCAA	17404
3675	GGCAUUAAC U UACACUGA	2097	UCAGUGUA CUGAUGAG	GCCGUUAGGC	CGAA IUAAUGCC	17405
3679	UUACUUAAC A CUGAUGUG	2098	CACAUCAG CUGAUGAG	GCCGUUAGGC	CGAA IUAAAGUA	17406
3681	ACUUAAC A UGAUGUGU	2099	AACACAUC CUGAUGAG	GCCGUUAGGC	CGAA IUUGUAAGU	17407
3694	UGUUAACG U UGUCAUC	2100	GAUGACAU CUGAUGAG	GCCGUUAGGC	CGAA ICGUAACA	17408
3700	GCUAUGUC A UCUGGUG	2101	CACCAAGA CUGAUGAG	GCCGUUAGGC	CGAA IACAUAAGC	17409
3703	AUGUCAUC U UGGUGGGG	2102	CCCCACCA CUGAUGAG	GCCGUUAGGC	CGAA IAUGACAU	17410
3714	GUGGGGGC A GCUUUCGC	2103	GCGAAAGC CUGAUGAG	GCCGUUAGGC	CGAA ICCCCAC	17411
3717	GGGGCAGC U UUCGCAGA	2104	UCUGCGAA CUGAUGAG	GCCGUUAGGC	CGAA ICUGCCCC	17412
3723	GCUUUCGC A GAUUCUAA	2105	UUAGAUC CUGAUGAG	GCCGUUAGGC	CGAA ICGAAAGC	17413
3729	GCAGAAUC U AAUUCGGG	2106	CCCGAAU CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUGC	17414
3752	CGUGGUAC A CUUGCGC	2107	GCGCCAAG CUGAUGAG	GCCGUUAGGC	CGAA IUACCAAG	17415
3754	UGGUACAC U UGGCGCUC	2108	GAGCGCCA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUACCA	17416
3761	CUUGCGC U CAUGGCGA	2109	UCGCCAUG CUGAUGAG	GCCGUUAGGC	CGAA ICGCCAAG	17417
3763	UGGCGCUC A UGGCGACC	2110	GGUCGCCA CUGAUGAG	GCCGUUAGGC	CGAA IAGCGCCA	17418
3771	AUGGCGAC C UUCAAGAU	2111	AUCUUGAA CUGAUGAG	GCCGUUAGGC	CGAA IUCGCCAU	17419
3772	UGGCGACC U UCAAGAU	2112	UAUCUUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUCGCCA	17420
3775	CGACCUUC A AGAUACAA	2113	UUGUAUCU CUGAUGAG	GCCGUUAGGC	CGAA IAAGGUCG	17421
3782	CAAGAUAC A ACCAGUGU	2114	ACACUGGU CUGAUGAG	GCCGUUAGGC	CGAA IUUUCUUG	17422
3785	GAUACAAC C AGUGUUUA	2115	UAAACACU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUAUC	17423
3786	AUACAACC A GUGUUUAU	2116	AUAAACAC CUGAUGAG	GCCGUUAGGC	CGAA IGUGUAUC	17424
3801	AUGGUGGC A UCGUUCU	2117	AGAAACGA CUGAUGAG	GCCGUUAGGC	CGAA ICCACCAU	17425
3809	AUCGUUUC U CAAAGCGA	2118	UCGCUUUG CUGAUGAG	GCCGUUAGGC	CGAA IAAACGAU	17426
3811	CGUUCUC A AAGCGAGA	2119	UCUCGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAGAAACG	17427
3825	AGAUGGAC C AACCAGGA	2120	UCCUGGUU CUGAUGAG	GCCGUUAGGC	CGAA IUCCAUCU	17428
3826	GAUGGACC A ACCAGGAG	2121	CUCCUGGU CUGAUGAG	GCCGUUAGGC	CGAA IGUCCAUC	17429
3829	GGACCAAC C AGGAGAAC	2122	GUUCUCCU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUCC	17430
3830	GACCAACC A GGAGAACA	2123	UGUUCUCC CUGAUGAG	GCCGUUAGGC	CGAA IGUGGUCC	17431
3838	AGGAGAAC A UUUUGUUG	2124	CAACAAA CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCCU	17432
3858	UUGGCGGC U GUUUUCU	2125	AAGAAAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCGCCAA	17433
3865	CUGUUUUC U UUCAAAUG	2126	CAUUUGAA CUGAUGAG	GCCGUUAGGC	CGAA IAAAACAG	17434
3869	UUUCUUUC A AAUGGCUU	2127	AAGCCAU CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAAA	17435
3876	CAAUUGGC U UAUCACGA	2128	UCUGAUA CUGAUGAG	GCCGUUAGGC	CGAA ICCAUUUG	17436
3881	GGCUUAUC A CUAUGCCC	2129	GGGCAUCG CUGAUGAG	GCCGUUAGGC	CGAA IAUAGGCG	17437
3888	CACGAUGC C CGCCAAU	2130	AUUUGGCG CUGAUGAG	GCCGUUAGGC	CGAA ICAUCGUG	17438
3889	ACGAUGCC C GCCAAAU	2131	AAUUUGGC CUGAUGAG	GCCGUUAGGC	CGAA IGAUCUGU	17439
3892	AUGCCCGC C AAUUCUG	2132	CAGAAUUU CUGAUGAG	GCCGUUAGGC	CGAA ICGGCAU	17440

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3893	UGCCCCGC A AAUUCUGC	2133	GCAGAAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGGCA	17441
3899	CCAAAUUC U GCUCUGGG	2134	CCCAGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUUUGG	17442
3902	AAUUCUGC U CUGGGAGA	2135	UCUCCCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGAAUU	17443
3904	UUCUGCUC U GGGAGAUC	2136	GAUCUCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA TAGCAGAA	17444
3913	GGGAGAUC C CUGAUGUG	2137	CACAUCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCUCC	17445
3914	GGAGAUCC C UGAUGUGU	2138	ACACAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUCUCC	17446
3915	GAGAUCCC U GAUGUGUU	2139	AACACAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAUCC	17447
3930	UGAAUUC A CUGGCGGU	2140	ACCGCCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUUCAA	17448
3932	GAAUUCAC U GCGGUAG	2141	CUACCGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAAUUC	17449
3942	GCGGUAGC U UGGAUGAU	2142	AUCAUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUACCGC	17450
3953	GAUGAUAC U GAGAGCCA	2143	UGGCUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAUCAUC	17451
3960	CUGAGAGC C AUAACAUU	2144	AAUGUUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUCAG	17452
3961	UGAGAGCC A UAACAUUC	2145	GAUGUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUCUCA	17453
3966	GCCAUAA C A UUCACAAC	2146	GUUGUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUAUGGC	17454
3970	UAACAUUC A CAACGACA	2147	UGUCGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUGUUA	17455
3972	ACAAGCAC A ACGACAUC	2148	GAUGUCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAAUUG	17456
3978	ACAACGAC A UCAAACGU	2149	ACGUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGUUGU	17457
3981	ACGACAUC A AACGUGGU	2150	ACCACGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGUCGU	17458
3995	GGUUGUUC C GCUCUAG	2151	CUAGCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACAACC	17459
3998	UGUCCGC U GCUAGCCC	2152	GGGCUAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGAACA	17460
4001	UCCGCUC U AGCCUGC	2153	GCAGGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGCGGA	17461
4005	CUCUAGC C CUGCUAAC	2154	GUUAGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAGCAG	17462
4006	UGCUAGCC C UGCUAACA	2155	UGUAGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUAGCA	17463
4007	GCUAGCCC U GCUAACAC	2156	GUGUAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCUAGC	17464
4010	AGCCUGC U AACACCCG	2157	CGGGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGGGCU	17465
4014	CUCUAA C A CCCGGGCU	2158	AGCCCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUAGCAG	17466
4016	GUUAAC C CGGGCUGA	2159	UCAGCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUAGC	17467
4017	CUAACACC C GGGCUGAG	2160	CUAGCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUAG	17468
4022	ACCCGGG U GAGAUGCU	2161	AGCAUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCCGGGU	17469
4030	UGAGAUC U UGAAUCUG	2162	CAGAUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUCUCA	17470
4037	CUUGAUC U GGAUGUGU	2163	ACACAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCAAG	17471
4048	AUGUGUAC A GAUACUG	2164	CAGUAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACACAU	17472
4055	CAGGAUC U GCUGUUGA	2165	UCAACAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAUCCUG	17473
4058	GAUACUGC U GUUGAUGG	2166	CCAUCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUAUC	17474
4078	GAAUAGGC A GCUGAUC	2167	GAUCAAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUAUUC	17475
4081	UAGGCAGC U UGAUCAGG	2168	CCUGAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGCCUA	17476
4087	GCUGAUC A GGGAGAAG	2169	CUUCUCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCAAGC	17477
4104	AGGAGUC A GCUGCAA	2170	UUUGCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACUCCU	17478
4107	AGUGCAGC U GCAAAAAA	2171	UUUUUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGCACU	17479
4110	GCAGCUC A AAAAGAA	2172	UUCUUUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGCUC	17480
4125	AAAGGAGC A AGUCUGCU	2173	AGCAGACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUUU	17481
4130	AGCAAGUC U GCUAUGCU	2174	AGCAUAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUUGCU	17482
4133	AAGUCUGC U AUGCUUGG	2175	CCAAGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGACUU	17483
4138	UGCUAUC U UGGCUCUA	2176	UAGAGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUAGCA	17484
4143	UGCUUGGC U CUAGCCUC	2177	GAGGCUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAAGCA	17485
4145	CUUGGCUC U AGCCUCAA	2178	UUGAGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCAAG	17486
4149	GCUCUAGC C UCAACAGG	2179	CCUGUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAGAGC	17487
4150	CUCUAGCC U CAACAGGA	2180	UCCGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUAGAG	17488
4152	CUAGCCUC A ACAGGACU	2181	AGUCCUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGCUAG	17489
4155	GCCUCAAC A GGACUUU	2182	AAAAGUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGAGGC	17490
4160	AACAGGAC U UUUCAACC	2183	GGUUGAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCUGUU	17491
4165	GACUUUUC A ACCCAUG	2184	CAUGGGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAAGUC	17492
4168	UUUUCAAC C CCAUGAUC	2185	GAUCAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGAAAA	17493
4169	UUUCAACC C CAUGAUCC	2186	GGAUCAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUGAAA	17494
4170	UUCAACCC C AUGAUCCU	2187	AGGAUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUUGAA	17495
4171	UCAACCCC A UGAUCCUU	2188	AAGGAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGUUGA	17496
4177	CCAUGAUC C UUGCUGCU	2189	AGCAGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCAUGG	17497
4178	CAUGAUCC U UGCUGCUG	2190	CAGCAGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUCAUG	17498
4182	AUCCUUGC U GCUGGACU	2191	AGUCCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAGGAU	17499
4185	CUUGCUGC U GGACUGAU	2192	AUCAGUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGCAAG	17500
4190	UGCUGGAC U GAUUGCAU	2193	AUGCAAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCAGCA	17501

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4266	AUGUUUGC C AUCGUCGG	2207	CCGACGAU CUGAUGAG	GCCGUUAGGC	CGAA ICAAAACAU	17515
4267	UGUUUGCC A UCGUCGGA	2208	UCCGACGA CUGAUGAG	GCCGUUAGGC	CGAA IGCAAACA	17516
4280	CGGAGGGC U GGCAGAGC	2209	GCUCUGCC CUGAUGAG	GCCGUUAGGC	CGAA ICCCUCCG	17517
4284	GGGCUGGC A GAGCUUGA	2210	UCAAGCUC CUGAUGAG	GCCGUUAGGC	CGAA ICCAGCCC	17518
4289	GGCAGAGC U UGACAUUG	2211	CAAUGUCA CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGCC	17519
4294	AGCUUGAC A UUGACUCC	2212	GGAGUCA CUGAUGAG	GCCGUUAGGC	CGAA IUCAGCTU	17520
4300	ACAUUGAC U CCAUGGCC	2213	GGCCAUGG CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUGU	17521
4302	AUUGACUC C AUGGCCAU	2214	AUGGCCAU CUGAUGAG	GCCGUUAGGC	CGAA IAGUCAAU	17522
4303	UUGACUCC A UGGCCAUA	2215	AAUGGCCA CUGAUGAG	GCCGUUAGGC	CGAA IGAGUCAA	17523
4308	UCCAUGGC C AUUCCAUA	2216	AUUGGAAU CUGAUGAG	GCCGUUAGGC	CGAA ICCAUGGA	17524
4309	CCAUGGCC A UUCAUUG	2217	CAUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA IGCAUGGG	17525
4313	GGCCAUAU C AAUGACUA	2218	UAGUCAU CUGAUGAG	GCCGUUAGGC	CGAA IAAUGGCC	17526
4314	GCCAUAUC A AUGACUAU	2219	AUAGUCAU CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGGC	17527
4320	CCAUGAC U AUCGCGGG	2220	CCCGCGAU CUGAUGAG	GCCGUUAGGC	CGAA IUCAUUGG	17528
4331	CBCGGGGC U CAUGUUUG	2221	CAAACAUG CUGAUGAG	GCCGUUAGGC	CGAA ICCCCGCG	17529
4333	CGGGGCU C A UGUUUGCU	2222	AGCAAACA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCCCG	17530
4341	AUGUUUGC U GCUUUCGU	2223	ACGAAAGC CUGAUGAG	GCCGUUAGGC	CGAA ICAAAACAU	17531
4344	UUUGCUGC U UUCGUGAU	2224	AUCACGAA CUGAUGAG	GCCGUUAGGC	CGAA ICAGCAAA	17532
4356	GUGAUUUC U GGGAAUUC	2225	GAUUUCCC CUGAUGAG	GCCGUUAGGC	CGAA IAAAUAC	17533
4365	GGGAAUUC A ACAGAUUA	2226	AUAUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IAUUUCCC	17534
4368	AAAUCAAC A GAUAUGUG	2227	CACAUUUC CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUUU	17535
4396	CGCGGAC C UUUCUGGG	2228	CCAGGAAA CUGAUGAG	GCCGUUAGGC	CGAA IUCCGCCG	17536
4401	GACAUUUC C UGGGAAAG	2229	CUUUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IUAUUGUC	17537
4402	ACAUUUCU U GGGAAAGU	2230	ACUUUCCC CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGU	17538
4416	AGUGAUGC A GAAAUUAC	2231	GUAAUUUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUCACU	17539
4425	GAAAUUAC A GGCUCGAG	2232	CUCGAGCC CUGAUGAG	GCCGUUAGGC	CGAA IUAAUUUC	17540
4429	UUACAGGC U CGAGCGAA	2233	UUCGCUCC CUGAUGAG	GCCGUUAGGC	CGAA ICCUGUAA	17541
4454	UGUGCGGC U UGAUGAUG	2234	CAUCAUCA CUGAUGAG	GCCGUUAGGC	CGAA ICCGCACA	17542
4471	AUGGAAAC U UCCAGCUC	2235	GAGCUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUUUCCA	17543
4474	GAAACUUC C AGCUCAUG	2236	CAUGAGCU CUGAUGAG	GCCGUUAGGC	CGAA IAAGUUUC	17544
4475	AAACUUC C A GCUCAUGA	2237	UCAUGAGC CUGAUGAG	GCCGUUAGGC	CGAA IGAAGUUU	17545
4478	CUUCCAGC U CAUGAAUG	2238	CAUUCAGU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGAAG	17546
4480	UCCAGCUC A UGAAUGAU	2239	AUCAUUC CUGAUGAG	GCCGUUAGGC	CGAA IAGCUGGA	17547
4490	GAAUGAUC C AGGAGCAC	2240	GUGUCCCU CUGAUGAG	GCCGUUAGGC	CGAA IAUCAUUC	17548
4491	AAUGAUCC A GGAGCACC	2241	GGUGCUCC CUGAUGAG	GCCGUUAGGC	CGAA IGAUCAU	17549
4497	CCAGGAGC A CCUUGGAA	2242	UUCCAAGG CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGGG	17550
4499	AGGAGCAC C UUGGAAGA	2243	UCUUCCAA CUGAUGAG	GCCGUUAGGC	CGAA IUGCUCCU	17551
4500	GGAGCACC U UGGAAGAU	2244	AUCUUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGUGCUCC	17552
4517	UGGAUUC U CAGAAUGG	2245	CAUUCUG CUGAUGAG	GCCGUUAGGC	CGAA ICAUCCAU	17553
4519	GGAUGCUC A GAAUGGUC	2246	GACCAUUC CUGAUGAG	GCCGUUAGGC	CGAA IAGCAUCC	17554
4528	GAAUGGUC U GUCUCGCG	2247	CGCGAGAC CUGAUGAG	GCCGUUAGGC	CGAA IACCAUUC	17555
4532	GGUCUGUC U CGCGAUUA	2248	UAAUCGCG CUGAUGAG	GCCGUUAGGC	CGAA IACAGACC	17556
4549	GUGCGUAC A CCCCUGG	2249	CCAGGGGG CUGAUGAG	GCCGUUAGGC	CGAA IUACGCAC	17557
4551	GCGUACAC C CCCUGGC	2250	GCCCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IUGUACGC	17558
4552	CGUACACC C CCUGGGCA	2251	UGCCCAGG CUGAUGAG	GCCGUUAGGC	CGAA IGUGUACG	17559
4553	GUACACCC C CUGGGCAA	2252	UUGCCCAG CUGAUGAG	GCCGUUAGGC	CGAA IGGUGUAC	17560
4554	UACACCCC C UGGGCAAU	2253	AUUGCCCA CUGAUGAG	GCCGUUAGGC	CGAA IGGUGUA	17561
4555	ACACCCC U GGGCAUUC	2254	GAUUGCCC CUGAUGAG	GCCGUUAGGC	CGAA IGGGUGU	17562
4560	CCCUGGGC A AUCUUGCC	2255	GGCAAGAU CUGAUGAG	GCCGUUAGGC	CGAA ICCCAGGG	17563
4564	GGGCAUUC U UGCCUCA	2256	UGAGGGCA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGCCC	17564
4568	AAUCUUGC C CUCAGUAG	2257	CUACUGAG CUGAUGAG	GCCGUUAGGC	CGAA ICAAGAUU	17565
4569	AUCUUGCC C UCAGUAGU	2258	ACUACUGA CUGAUGAG	GCCGUUAGGC	CGAA IGCAAGAU	17566
4570	UCUUGCCC U CAGUAGUU	2259	AACUACUG CUGAUGAG	GCCGUUAGGC	CGAA IGGCAAGA	17567
4572	UUGCCUUC A GUAGUUGG	2260	CCAACUAC CUGAUGAG	GCCGUUAGGC	CGAA IAGGGCAA	17568
4593	UGGAUAAC U CUCCAUA	2261	UAUUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUUAUCCA	17569
4595	GAUAACUC U CCAAUACA	2262	UGUAUUGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUUAUC	17570
4597	UAACUCUC C AAUACACA	2263	UGUGUAUU CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUUA	17571
4598	AAUCUUC C AUACACAA	2264	UUGUGUAU CUGAUGAG	GCCGUUAGGC	CGAA IGAGAGUU	17572
4603	UCCAUAUC A CAAAGAGA	2265	UCUCUUUG CUGAUGAG	GCCGUUAGGC	CGAA IUUAUUGGA	17573
4605	CAAUACAC A AAGAGAGG	2266	CCUCUCUU CUGAUGAG	GCCGUUAGGC	CGAA IUGUAUUG	17574
4630	UGUGGGAC A CUCCUCA	2267	UGAGGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUCCACA	17575
4632	UGGGACAC U CCCUACCC	2268	GGUGAGGG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCCA	17576

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4634	GGACACUC C CUCACCAA	2269	UUGGUGAG CUGAUGAG GCCGUUAGGC	CGAA IAGUGUCC	17577
4635	GACACUCC C UCACCAA	2270	UUUGGUGA CUGAUGAG GCCGUUAGGC	CGAA IGAGUGUC	17578
4636	ACACUCCC U CACCAAAG	2271	CUUUGGUG CUGAUGAG GCCGUUAGGC	CGAA IGGAGUGU	17579
4638	ACUCCUC C CCAAAGGA	2272	UCCUUUGG CUGAUGAG GCCGUUAGGC	CGAA IAGGGAGU	17580
4640	UCCUCAC C AAAGGAGU	2273	ACUCCUUU CUGAUGAG GCCGUUAGGC	CGAA IUGAGGGA	17581
4641	CCUCACC A AAGGAGUA	2274	UACUCCUU CUGAUGAG GCCGUUAGGC	CGAA IGUGAGGG	17582
4651	AGGAGUAC A AAAAGGGG	2275	CCCUUUU CUGAUGAG GCCGUUAGGC	CGAA IUACUCCU	17583
4663	AGGGGGAC A CGACCACC	2276	GGUGGUCG CUGAUGAG GCCGUUAGGC	CGAA IUCCCCU	17584
4668	GACACGAC C ACCGGCGU	2277	ACGCGCGU CUGAUGAG GCCGUUAGGC	CGAA IUCGUGUC	17585
4669	ACACGACC A CCGGCGUC	2278	GACGCGCG CUGAUGAG GCCGUUAGGC	CGAA IGUCGUGU	17586
4671	ACGACCAC C GCGGUCUA	2279	UAGACGCC CUGAUGAG GCCGUUAGGC	CGAA IUGGUCGU	17587
4678	CCGGCGUC U ACAGGAUC	2280	GAUCCUGU CUGAUGAG GCCGUUAGGC	CGAA IACGCGCG	17588
4681	GCGUCUAC A GGAUCAUG	2281	CAUGAUCC CUGAUGAG GCCGUUAGGC	CGAA IUAGACGC	17589
4687	ACAGGAUC A UGACUCGU	2282	ACGAGUCA CUGAUGAG GCCGUUAGGC	CGAA IAUCCUGU	17590
4692	AUCAUGAC U CGUGGGCU	2283	AGCCACGC CUGAUGAG GCCGUUAGGC	CGAA IUCAUGAU	17591
4700	UCGUGGGC U GCUCGGCA	2284	UGCCGAGC CUGAUGAG GCCGUUAGGC	CGAA ICCCACGA	17592
4703	UGGGGUCG U CGGCAGUU	2285	AACUGCCG CUGAUGAG GCCGUUAGGC	CGAA ICAGCCCA	17593
4708	UGCUCGGC A GUUAUCAA	2286	UUGAUAA CUGAUGAG GCCGUUAGGC	CGAA ICCGAGCA	17594
4715	CAGUUAUC A AGCAGGAG	2287	CUCUCGCU CUGAUGAG GCCGUUAGGC	CGAA IAUAAUCG	17595
4719	UAUCAAGC A GGAGCGGG	2288	CCCGCUC CUGAUGAG GCCGUUAGGC	CGAA ICUUGAUA	17596
4750	GUGUUUUC C ACACCCUU	2289	AAGGGUGU CUGAUGAG GCCGUUAGGC	CGAA IAAAACAC	17597
4751	UGUUUUCC A CACCCUUU	2290	AAAGGGUG CUGAUGAG GCCGUUAGGC	CGAA IGAAAACA	17598
4753	UUUUCCAC A CCCCUGG	2291	CCAAAGGG CUGAUGAG GCCGUUAGGC	CGAA IUGGAAAA	17599
4755	UUCACAC C CUUUGGCA	2292	UGCCAAAG CUGAUGAG GCCGUUAGGC	CGAA IUGUGGAA	17600
4756	UCCACAC C UUUGGCAU	2293	AUGCCAAA CUGAUGAG GCCGUUAGGC	CGAA IGUGUGGA	17601
4757	CCACACCC U UUGGCAUA	2294	UAUGCCAA CUGAUGAG GCCGUUAGGC	CGAA IGGUGUGG	17602
4763	CCUUUGGC A UACAACAA	2295	UUGUUGUA CUGAUGAG GCCGUUAGGC	CGAA ICCAAAGG	17603
4767	UGGCAUAC A ACAAAGG	2296	CCUUUUGU CUGAUGAG GCCGUUAGGC	CGAA IUAUGCCA	17604
4770	CAUACAAC A AAAGGAGC	2297	GCUCUUUU CUGAUGAG GCCGUUAGGC	CGAA IUUGUAUG	17605
4779	AAAGGAGC C GCUUUGAU	2298	AUCAAGC CUGAUGAG GCCGUUAGGC	CGAA ICUCUUUU	17606
4782	GGAGCCGC U UGAUGAG	2299	CUCAUCAA CUGAUGAG GCCGUUAGGC	CGAA ICGGCUCC	17607
4801	GAGAGGGC C GCUUGGAC	2300	GUCCAGGC CUGAUGAG GCCGUUAGGC	CGAA ICCUCUC	17608
4804	AGGGCCGC C UGGACCCA	2301	UGGGUCCA CUGAUGAG GCCGUUAGGC	CGAA ICGGCCCU	17609
4805	GGGCCGCC U GGACCCAU	2302	AUGGGUCC CUGAUGAG GCCGUUAGGC	CGAA ICGGCCCC	17610
4810	GCCUGGAC C CAUACUGG	2303	CCAGUAUG CUGAUGAG GCCGUUAGGC	CGAA IUCCAGGC	17611
4811	CCUGGACC C AUACUGGG	2304	CCCAGUAU CUGAUGAG GCCGUUAGGC	CGAA IGUCCAGG	17612
4812	CUGGACCC A UACUGGGG	2305	CCCGAGUA CUGAUGAG GCCGUUAGGC	CGAA IGGUCCAG	17613
4816	ACCAUAC U GGGGAGU	2306	ACUGCCCC CUGAUGAG GCCGUUAGGC	CGAA IUAUGGGU	17614
4822	ACUGGGGC A GUGUCAAG	2307	CUUGACAC CUGAUGAG GCCGUUAGGC	CGAA ICCCAGU	17615
4828	GCAGUGUC A AGGAGGAU	2308	AUCCUCCU CUGAUGAG GCCGUUAGGC	CGAA IACACUGC	17616
4841	GGAUCGAC U UUGUACG	2309	CGUAACAA CUGAUGAG GCCGUUAGGC	CGAA IUCAUCC	17617
4856	CGGAGGAC C CUGGAAAU	2310	AUUUCCAG CUGAUGAG GCCGUUAGGC	CGAA IUCUCCG	17618
4857	GGAGGACC C UGGAAAUU	2311	AAUUUCCA CUGAUGAG GCCGUUAGGC	CGAA IGUCCUCC	17619
4858	GAGGACCC U GGAAAUUG	2312	CAAUUCC CUGAUGAG GCCGUUAGGC	CGAA IGGUCCUC	17620
4868	GAAAUUGC A GCACAAGU	2313	ACUUGUGC CUGAUGAG GCCGUUAGGC	CGAA ICAAUUC	17621
4871	AUUGCAGC A CAAGUGGA	2314	UCCACUUG CUGAUGAG GCCGUUAGGC	CGAA ICUGCAAU	17622
4873	UGCAGCAC A AGUGGAAC	2315	GUUCCACU CUGAUGAG GCCGUUAGGC	CGAA IUGCUGCA	17623
4886	GAACGGGC A GGAUGAGG	2316	CCUCAUCC CUGAUGAG GCCGUUAGGC	CGAA ICCGUUUC	17624
4898	UGAGGUGC A GAUGAUUG	2317	CAAUCAUC CUGAUGAG GCCGUUAGGC	CGAA ICACCUCA	17625
4916	GGUGGAAC C UGGCAAGA	2318	UCUUGCCA CUGAUGAG GCCGUUAGGC	CGAA IUUCCACC	17626
4917	GUGGAACC U GGCAAGAA	2319	UUCUUGCC CUGAUGAG GCCGUUAGGC	CGAA IGUUCCAC	17627
4921	AACCUUGC A AGAACGUU	2320	AACGUUCU CUGAUGAG GCCGUUAGGC	CGAA ICCAGGUU	17628
4939	AGAACGUC C AGACGAA	2321	UUUGGUCU CUGAUGAG GCCGUUAGGC	CGAA IACGUUCU	17629
4940	GAACGUCC A GACGAAAC	2322	GUUUCGUC CUGAUGAG GCCGUUAGGC	CGAA IAGCGUUC	17630
4949	GACGAAAC C AGGGGUGU	2323	ACACCCCU CUGAUGAG GCCGUUAGGC	CGAA IUUUCGUC	17631
4950	ACGAAACC A GGGGUGUU	2324	AACACCCC CUGAUGAG GCCGUUAGGC	CGAA IGUUUCGU	17632
4960	GGGUGUUC A AAACACCU	2325	AGGUGUUU CUGAUGAG GCCGUUAGGC	CGAA IAAACCCC	17633
4965	UUCAAAAC A CCUGAAGG	2326	CCUUCAGG CUGAUGAG GCCGUUAGGC	CGAA IUUUUGAA	17634
4967	CAAAACAC C UGAAGGAG	2327	CUCUUCUA CUGAUGAG GCCGUUAGGC	CGAA IUGUUUUG	17635
4968	AAAACACC U GAAGGAGA	2328	UCUCCUUC CUGAUGAG GCCGUUAGGC	CGAA IGUGUUUU	17636
4986	AUCGGGGC C GUGACUUU	2329	AAAGUCAC CUGAUGAG GCCGUUAGGC	CGAA ICCCCGAU	17637
4992	GCCGUGAC U UUGGACUU	2330	AAGUCCAA CUGAUGAG GCCGUUAGGC	CGAA IUCACGGC	17638

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4999	CUUUGGAC U UCCCCACU	2331	AGUGGGGA CUGAUGAG	GCCGUUAGGC	CGAA IUCCAAAG	17639
5002	UGGACUUC C CCACUGGA	2332	UCCAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IAAGUCCA	17640
5003	GGACUUC C CACUGGAA	2333	UUCAGUG CUGAUGAG	GCCGUUAGGC	CGAA IGGAAGUC	17641
5004	GACUUC C ACUGGAAC	2334	GUUCCAGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGGAA	17642
5005	ACUUC C CUGGAACA	2335	UGUCCAG CUGAUGAG	GCCGUUAGGC	CGAA IUUCCAGU	17643
5007	UUC C GGAACAUC	2336	GAUGUCC CUGAUGAG	GCCGUUAGGC	CGAA IUGGGAA	17644
5013	ACUGGAAC A UCAGGCUC	2337	GAGCCUGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGGAA	17645
5016	GGAACAUC A GGCUCACC	2338	GGUGAGCC CUGAUGAG	GCCGUUAGGC	CGAA IUGGGAA	17646
5020	CAUCAGGC U CACCAUA	2339	UAUUGGUG CUGAUGAG	GCCGUUAGGC	CGAA ICCUGAUG	17647
5022	UCAGGCUC A CCAUAUGU	2340	ACUAUUGG CUGAUGAG	GCCGUUAGGC	CGAA IAGCCUGA	17648
5024	AGGCUCAC C AAUAGUGG	2341	CCACUAU CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCCU	17649
5025	GGCUCACC A AUAGUGGA	2342	UCCACUAU CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCCU	17650
5035	UAGUGGAC A AAAACGGU	2343	ACCGUUU CUGAUGAG	GCCGUUAGGC	CGAA IUCCACUA	17651
5057	GAUUGGGC U UUAUGGCA	2344	UGCCAUA CUGAUGAG	GCCGUUAGGC	CGAA ICCCAAUC	17652
5065	UUUUGGC A AUGGAGUC	2345	GACUCCA CUGAUGAG	GCCGUUAGGC	CGAA ICCAUAUA	17653
5074	AUGGAGUC A UAAUGCCC	2346	GGCAUAU CUGAUGAG	GCCGUUAGGC	CGAA IACUCCAU	17654
5081	CAUAAGUC C CAACGGCU	2347	AGCCGUU CUGAUGAG	GCCGUUAGGC	CGAA ICAUUAUG	17655
5082	AUAAGUC C AACGGCUC	2348	GAGCCGU CUGAUGAG	GCCGUUAGGC	CGAA IGCAUUAU	17656
5083	UAAUGCCC A ACGGCUCA	2349	UGAGCCGU CUGAUGAG	GCCGUUAGGC	CGAA IGGCAUUA	17657
5089	CCAACGGC U CAUACAUA	2350	UAUGUAUG CUGAUGAG	GCCGUUAGGC	CGAA ICCGUUGG	17658
5091	AACGGCUC A UACAUAAG	2351	CUUAUGUA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCGUU	17659
5095	GCUCAUAC A UAAGCGCG	2352	CGCCGUU CUGAUGAG	GCCGUUAGGC	CGAA IUAUGAGC	17660
5111	GAUAGUC C GGUUGAAA	2353	UUUACACC CUGAUGAG	GCCGUUAGGC	CGAA ICACUAUC	17661
5132	GGAUGAGC C AAUCCAG	2354	CUGGGAU CUGAUGAG	GCCGUUAGGC	CGAA ICUCAUCC	17662
5133	GAUGAGCC A AUCCAGC	2355	GCUGGGAU CUGAUGAG	GCCGUUAGGC	CGAA IGCUAUCC	17663
5137	AGCCAAUC C CAGCCGGA	2356	UCCGGCUG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGCU	17664
5138	GCCAAUCC C AGCCGGAU	2357	AUCCGGCU CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGGC	17665
5139	CCAAUCCC A GCCGGAU	2358	AAUCCGGC CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGGC	17666
5142	AUCCAGC C GGAUUCGA	2359	UCGAAUCC CUGAUGAG	GCCGUUAGGC	CGAA ICUGGGAU	17667
5153	AUUCGAAC C UGAGAUGC	2360	GCAUCUCA CUGAUGAG	GCCGUUAGGC	CGAA IUUCGAU	17668
5154	UUCGAACC U GAGAUGC	2361	AGCAUCUC CUGAUGAG	GCCGUUAGGC	CGAA IGUUCGAA	17669
5162	UGAGAUGC U GAGGAAA	2362	UUUUCUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUCUCA	17670
5174	GA AAAAC A GAUCACUG	2363	CAGUAGC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUUC	17671
5179	AACAGUC C CUGUACUG	2364	CAGUAC CUGAUGAG	GCCGUUAGGC	CGAA IACUGUUU	17672
5181	CAGAUAC U GUACUGGA	2365	UCCAGUAC CUGAUGAG	GCCGUUAGGC	CGAA IUGAUCUG	17673
5186	CACUGUAC U GGAUCUC	2366	GGAGAUCC CUGAUGAG	GCCGUUAGGC	CGAA IUACAGUG	17674
5192	ACUGGAUC U CCAUCCCG	2367	CGGGAUGG CUGAUGAG	GCCGUUAGGC	CGAA IAUCCAGU	17675
5194	UGGAUCUC C AUCCCGGC	2368	GCCGGGAU CUGAUGAG	GCCGUUAGGC	CGAA IAGAUAUA	17676
5195	GGAUUCC A UCCCGGC	2369	CGCCGGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGAUCC	17677
5198	UCUCCAU C CGCGCCG	2370	CGCGCCG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGAGA	17678
5199	CUCCAUC C GCGCCCG	2371	CCGCGCC CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGAG	17679
5205	CCCGCGC C GGUAAAAC	2372	GUUUUACC CUGAUGAG	GCCGUUAGGC	CGAA ICGCCGGG	17680
5214	GGUAAAAC A AGGAGGAU	2373	AUCCUCCU CUGAUGAG	GCCGUUAGGC	CGAA IUUUUACC	17681
5225	GAGGAUUC U GCCACAGA	2374	UCUGUGGC CUGAUGAG	GCCGUUAGGC	CGAA IAAUCCUC	17682
5228	GAUCUGC C ACAGAUA	2375	UGAUCUGU CUGAUGAG	GCCGUUAGGC	CGAA ICAGAAUC	17683
5229	AUUCUGCC A CAGAUCAU	2376	AUGAUCUG CUGAUGAG	GCCGUUAGGC	CGAA IGCAGAAU	17684
5231	UCUGCCAC A GAUCAUA	2377	UGAUGAUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGCAGA	17685
5236	CACAGAU C UCAAAGAG	2378	CUCUUUGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUGU	17686
5239	AGAUCAUC A AAGAGGCC	2379	GGCCUCU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGUUC	17687
5247	AAAGAGGC C AUAACAG	2380	CUGUUUAU CUGAUGAG	GCCGUUAGGC	CGAA ICCUCUUU	17688
5248	AAGAGGCC A UAAACAGA	2381	UCUGUUUA CUGAUGAG	GCCGUUAGGC	CGAA IGCUCUUU	17689
5254	CCAUAAAC A GAAGACUG	2382	CAGUCUUC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUAUG	17690
5261	CAGAAGAC U GAGAACAG	2383	CUGUUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUCUUCUG	17691
5268	CUGAGAAC A GCCUGUCU	2384	AGCACGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCAG	17692
5271	AGAACAGC C GUGCUAGC	2385	GCUAGCAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUUCU	17693
5276	AGCCGUG C AGCACCA	2386	UUGUGUCU CUGAUGAG	GCCGUUAGGC	CGAA ICACGGCU	17694
5280	GUGCUAGC A CCAACCAG	2387	CUGGUGUG CUGAUGAG	GCCGUUAGGC	CGAA ICUAGCAC	17695
5282	GUAGCAC C AACAGGG	2388	CCUGUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGCUAGC	17696
5283	CUAGCAC C AACAGGGU	2389	ACCUGGU CUGAUGAG	GCCGUUAGGC	CGAA IGUGCUAG	17697
5286	GCACCAAC C AGGGUUGU	2390	ACAACCCU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUGC	17698
5287	CACCAACC A GGGUUGU	2391	CACAACC CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGUG	17699
5298	GUUGUGGC U GCUGAGAU	2392	AUCACGC CUGAUGAG	GCCGUUAGGC	CGAA ICCACAAC	17700

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5231	UCUGCCAC A GAUCAUCA	2377	UGAUGAUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGCAGA	17685
5236	CACAGAUC A UCAAAGAG	2378	CUCUUUGA CUGAUGAG	GCCGUUAGGC	CGAA IAUCUGUG	17686
5239	AGAUCAUC A AAGAGGCC	2379	GGCCUCUU CUGAUGAG	GCCGUUAGGC	CGAA IAUGAUCU	17687
5247	AAAGAGGC C AUAACAG	2380	CUGUUUAU CUGAUGAG	GCCGUUAGGC	CGAA ICCUCUUU	17688
5248	AAGAGGCC A UAAACAGA	2381	UCUGUUUA CUGAUGAG	GCCGUUAGGC	CGAA IGCCUCUU	17689
5254	CCAUAAAC A GAAGACUG	2382	CAGUCUUC CUGAUGAG	GCCGUUAGGC	CGAA IUUUAUGG	17690
5261	CAGAAGAC U GAGAACAG	2383	CUGUUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUCUUCUG	17691
5268	CUGAGAAC A GCCGUGCU	2384	AGCACGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCAG	17692
5271	AGAACAGC C GUGCUAGC	2385	GCUAGCAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUUCU	17693
5276	AGCCGUGC U AGCACCAA	2386	UUGGUGCU CUGAUGAG	GCCGUUAGGC	CGAA ICACGGCU	17694
5280	GUGCUAGC A CCAACCAG	2387	CUGGUUGG CUGAUGAG	GCCGUUAGGC	CGAA ICUAGCAC	17695
5282	GTUAGCAC C AACCAGGG	2388	CCCUGGUU CUGAUGAG	GCCGUUAGGC	CGAA IUGCUAGC	17696
5283	CUAGCACC A ACCAGGGU	2389	ACCCUGGU CUGAUGAG	GCCGUUAGGC	CGAA IGUGCUAG	17697
5286	GCACCAAC C AGGGUUGU	2390	ACAACCCU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUGC	17698
5287	CACCAACC A GGGUUGUG	2391	CACAACCC CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGUG	17699
5298	GUUGUGG U GCUGAGAU	2392	AUCUCAGC CUGAUGAG	GCCGUUAGGC	CGAA ICCACAAC	17700
5301	GUGGCUGC U GAGAUGGC	2393	GCCAUCUC CUGAUGAG	GCCGUUAGGC	CGAA ICAGCCAC	17701
5310	GAGAUGGC U GAAGCACU	2394	AGUGCUUC CUGAUGAG	GCCGUUAGGC	CGAA ICCAUCUC	17702
5316	GCUGAAGC A CUGAGAGG	2395	CCUCUCAG CUGAUGAG	GCCGUUAGGC	CGAA ICUUCAGC	17703
5318	UGAAGCAC U GAGAGGAC	2396	GUCCUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUGCUUCA	17704
5327	GAGAGGAC U GCCCAUCC	2397	GGAUGGGC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCUC	17705
5330	AGGACUGC C CAUCCGGU	2398	ACCGGAUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGUCCU	17706
5331	GGACUGCC C AUCCGGUA	2399	UACCGGAU CUGAUGAG	GCCGUUAGGC	CGAA IGCAGUCC	17707
5332	GACUGCCC A UCCGUUAC	2400	GUACCGGA CUGAUGAG	GCCGUUAGGC	CGAA IGGCAGUC	17708
5335	UGCCCAUC C GGUACCAG	2401	CUGGUACC CUGAUGAG	GCCGUUAGGC	CGAA IAUGGGCA	17709
5341	UCCGGUAC C AGACAUC	2402	GGAUGUCU CUGAUGAG	GCCGUUAGGC	CGAA IUACCGGA	17710
5342	CCGGUACC A GACAUC	2403	CGGAUGUC CUGAUGAG	GCCGUUAGGC	CGAA IGUACCGG	17711
5346	UACCAGAC A UCCGAGU	2404	ACUGCGGA CUGAUGAG	GCCGUUAGGC	CGAA IUCUGGUA	17712
5349	CAGACAUC C GCAGUGCC	2405	GGCACUGC CUGAUGAG	GCCGUUAGGC	CGAA IAUGUCUG	17713
5352	ACAUCGCG A GUGCCAG	2406	CUGGGCAC CUGAUGAG	GCCGUUAGGC	CGAA ICGGAUGU	17714
5357	CGCAGUGC C CAGAGAAC	2407	GUUCUCUC CUGAUGAG	GCCGUUAGGC	CGAA ICACUGCG	17715
5358	GACUGGCC C AGAGAACA	2408	UGUUCUCU CUGAUGAG	GCCGUUAGGC	CGAA IGCACUGC	17716
5359	CAGUGCCC A GAGAACAU	2409	AUGUUCUC CUGAUGAG	GCCGUUAGGC	CGAA IGGCACUG	17717
5366	CAGAGAAC A UAAUGGAA	2410	UUCCAUUA CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCUG	17718
5392	UGAUGUC A UGUGUCAU	2411	AUGACACA CUGAUGAG	GCCGUUAGGC	CGAA IACAUCAA	17719
5399	CAUGUGUC A UGCUACCC	2412	GGGUAGCA CUGAUGAG	GCCGUUAGGC	CGAA IACACAUG	17720
5403	UGUCAUGC U ACCUCAC	2413	GUGAGGGU CUGAUGAG	GCCGUUAGGC	CGAA ICAUGACA	17721
5406	CAUGCUAC C CUCACCCA	2414	UGGGUGAG CUGAUGAG	GCCGUUAGGC	CGAA IUAGCAUG	17722
5407	AUGCUACC C UCACCCAC	2415	GUGGGUAG CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCAU	17723
5408	UGCUAACC U CACCACA	2416	UGUGGGUG CUGAUGAG	GCCGUUAGGC	CGAA IGGUAGCA	17724
5410	CUACCCUC A CCCACAGG	2417	CCUGUGGG CUGAUGAG	GCCGUUAGGC	CGAA IAGGGUAG	17725
5412	ACCCUCAC C CACAGGCU	2418	AGCCUGUG CUGAUGAG	GCCGUUAGGC	CGAA IUGAGGGU	17726
5413	CCUCACCC C ACAGGUCG	2419	CAGCCUGU CUGAUGAG	GCCGUUAGGC	CGAA IGUGAGGG	17727
5414	CCUCACCC A CAGGCUGA	2420	UCAGCCUG CUGAUGAG	GCCGUUAGGC	CGAA IGGUGAGG	17728
5416	UCACCCAC A GGCUGAUG	2421	CAUCAGCC CUGAUGAG	GCCGUUAGGC	CGAA IUGGGUGA	17729
5420	CCACAGGC U GAUGUCUC	2422	GAGACAUC CUGAUGAG	GCCGUUAGGC	CGAA ICCUGUGG	17730
5427	CUGAUGUC U CCUCACAG	2423	CUGUGAGG CUGAUGAG	GCCGUUAGGC	CGAA IACAUCAG	17731
5429	GAUGUCUC C UCACAGGG	2424	CCCUGUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGACAUC	17732
5430	AUGUCUCC U CACAGGGU	2425	ACCCUGUG CUGAUGAG	GCCGUUAGGC	CGAA IGAGACAU	17733
5432	GUCUCCUC A CAGGGUGC	2426	GCACCCUG CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGAC	17734
5434	CUCCUCAC A GGGUGCCG	2427	CGGCACCC CUGAUGAG	GCCGUUAGGC	CGAA IUGAGGAG	17735
5441	CAGGGUGC C GAACUACA	2428	UGUAGUUC CUGAUGAG	GCCGUUAGGC	CGAA ICACCCUG	17736
5446	UGCCGAAC U ACAACCTG	2429	CAGGUUGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCGGCA	17737
5449	CGAACUAC A ACCUGUUC	2430	GAACAGGU CUGAUGAG	GCCGUUAGGC	CGAA IUAGUUCG	17738
5452	ACUACAAC C UGUUCGUG	2431	CACGAACA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUAGU	17739
5453	CUACAACC U GUUCGUGA	2432	UCACGAAC CUGAUGAG	GCCGUUAGGC	CGAA IUUGUAG	17740
5472	GAUGAGGC U CAUUCAC	2433	GUGAAAUG CUGAUGAG	GCCGUUAGGC	CGAA ICCUCAUC	17741
5474	UGAGGCUC A UUUCACCG	2434	CGUGAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCUCA	17742
5479	CUCAUUC A CCGACCCA	2435	UGGGUCGG CUGAUGAG	GCCGUUAGGC	CGAA IAAAUAG	17743
5481	CAUUCAC C GACCCAGC	2436	GCUGGGUC CUGAUGAG	GCCGUUAGGC	CGAA IUGAAUG	17744
5485	UCACCGAC C CAGCUAGC	2437	GTUAGCUG CUGAUGAG	GCCGUUAGGC	CGAA IUCGGUGA	17745

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5486	CACCGACC C AGCUAGCA	2438	UGCUAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCGGUG	17746
5487	ACCGACCC A GCUAGCAU	2439	AUGCUAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUCGGU	17747
5490	GACCCAGC U AGCAUUGC	2440	GCAAUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGGGUC	17748
5494	CAGCUAGC A UUGCAGCA	2441	UGCUGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAGCUG	17749
5499	AGCAUUGC A GCAAGAGG	2442	CCUCUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAUGCU	17750
5502	AUUGCAGC A AGAGGUUA	2443	UAACCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGCAAU	17751
5512	GAGGUUAC A UUUCCACA	2444	UGUGGAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAACCUC	17752
5517	UACAUUUC C ACAAAGGU	2445	ACCUUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAUUGA	17753
5518	ACAUUUC C ACAAAGGU	2446	GACCUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAAUUG	17754
5520	AUUUCCAC A AAGGUCGA	2447	UCGACCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAAAU	17755
5531	GGUCGAGC U AGGGGAGG	2448	CCUCCCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCGACC	17756
5547	GCGGCGGC A AUUUAUUA	2449	AUGAAUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGCCCG	17757
5554	CAUAUUC A UGACAGCC	2450	GGCUGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUAUUG	17758
5559	UCCAUGAC A GCCACCCC	2451	GGGGUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAUGAA	17759
5562	AUGACAGC C ACCCCACC	2452	GGUGGGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGUCAU	17760
5563	UGACAGCC A CCCACCA	2453	UGGUGGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUGUCA	17761
5565	ACAGCCAC C CCACCAGG	2454	CCUGGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCUGU	17762
5566	CAGCCACC C CACCAGGC	2455	GCCUGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGGCUG	17763
5567	AGCCACCC C ACCAGGCA	2456	UGCCUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUGGCU	17764
5568	GCCACCCC A CCAGGCAC	2457	GUGCCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGUGGC	17765
5570	CACCCAC A AGGCACUU	2458	AAGUGCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGGGUG	17766
5571	ACCCACC A GGCACUUC	2459	GAAGUGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGGGUU	17767
5575	CACCAGGC A CUUCAGAU	2460	AUCUGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUGGUG	17768
5577	CCAGGCAC U UCAGAUCC	2461	GGAUCUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCCUGG	17769
5580	GGCAUUC A GAUCCAUA	2462	AAUGGAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGUGCC	17770
5585	UUCAGAU C AUUCCAG	2463	CUGGGAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCUGAA	17771
5586	UCAGAUCC A UUCCAGA	2464	UCUGGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUCUGA	17772
5590	AUCCAUC C CAGAUCC	2465	GGACUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUGGAU	17773
5591	UCCAUUC C AGAGUCCA	2466	UGGACUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUGGA	17774
5592	CAUUCUU A GAGUCAA	2467	UUGGACUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAAUGG	17775
5598	CCAGAGUC C AAUUCACC	2468	GGUGAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUCUGG	17776
5599	CAGAGUCC A AUUCACCA	2469	UGGUGAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACUCUG	17777
5604	UCCAUAUC A CCAAUUC	2470	GAAAUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUUGGA	17778
5606	CAAUUCAC C AAUUCUG	2471	CGGAAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAAUUG	17779
5607	AAUUCACC A AUUUCUG	2472	UCGGAAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGAAUU	17780
5613	CCAAUUC C GACUACA	2473	UGUAAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAUUGG	17781
5617	UUUCCGAC U UACGACU	2474	AGUCUGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGAAUA	17782
5621	CGACUAC A GACUGAGA	2475	UCUCAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAAGUCG	17783
5625	UUACAGAC U GAGAUCCC	2476	GGGAUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUGUAA	17784
5632	CUGAGAU C CGGAUCGA	2477	UCGAUCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCUCAG	17785
5633	UGAGAUCC C GGAUCGAG	2478	CUCGAUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUCUCA	17786
5643	GAUCGAGC U UGGAACUC	2479	GAGUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCGAUC	17787
5650	CUUGGAAC U CUGGAUAC	2480	GUAUCCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCCAAG	17788
5652	UGGAACUC U GGAUACGA	2481	UCGUAUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUCCA	17789
5668	AAUGAUC A CAGAAUAC	2482	GUAUUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCCAUA	17790
5670	UGGAUCAC A GAAUACAC	2483	GUGUAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAUCCA	17791
5677	CAGAAUAC A CCGGGAAG	2484	CUUCCCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAUUCUG	17792
5679	GAAUACAC C GGAAGAC	2485	GUCUCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUAUUC	17793
5702	GUUUGUGC C UAGUGUCA	2486	UGACACUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACAAAC	17794
5703	UUUGUGCC U AGUGUCAA	2487	UUGACACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCACAAA	17795
5710	CUAGUGUC A AGAUGGGG	2488	CCCCAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACACTAG	17796
5730	GAGAUUGC C CUUUGCCU	2489	AGGCAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAUCUC	17797
5731	AGAUUGCC C UUUGCCUA	2490	UAGGCAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAAUCU	17798
5732	GAUUGCCC U UUGCCUAC	2491	GUAGGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCAAUC	17799
5737	CCCUUUGC C UACAACGU	2492	ACGUUGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAAGGG	17800
5738	CCUUGGCC U ACAACGUG	2493	CACGUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAAAGG	17801
5741	UUGCCUAC A ACGUCUG	2494	CAGCACGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAGGCAA	17802
5748	CAACGUGC U GGAAGAA	2495	UUCUUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACGUUG	17803
5764	AAGUAGUC C AAUUGAAC	2496	GUUCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUACU	17804
5765	AGUAGUCC A AUUGAACA	2497	UGUCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACUACU	17805
5773	AAUGAAC A GAAAGUCG	2498	CGACUUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCAAUU	17806

5797	CGGAGUAC C CAAAAUGU	2499	ACAUUUUG CUGAUGAG	GCCGUUAGGC	CGAA IUACUCCG	17807
5798	GGAGUACC C AAAAUGUA	2500	UACAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IGUACUCC	17808
5799	GAGUACCC A AAAUGUAA	2501	UUACAUUU CUGAUGAG	GCCGUUAGGC	CGAA IGGUACUC	17809
5824	AUUGGGAC U UUGUUAUC	2502	GAUAACAA CUGAUGAG	GCCGUUAGGC	CGAA IUCCCAAU	17810
5833	UUGUUAUC A CAACAGAC	2503	GUCUGUUG CUGAUGAG	GCCGUUAGGC	CGAA IAUACAA	17811
5835	GUUAUCAC A ACAGACAU	2504	AUGUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGAUAA	17812
5838	AUCACAAC A GACAUUUC	2505	GAUAUGUC CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGAU	17813
5842	CAACAGAC A UAUCUGAA	2506	UUCAGUAU CUGAUGAG	GCCGUUAGGC	CGAA IUCUGUUG	17814
5847	GACAUUUC U GAAAUUGG	2507	CCCAUUUC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUUC	17815
5859	AUGGGGGC U AACUUCAA	2508	UUGAAGUU CUGAUGAG	GCCGUUAGGC	CGAA ICCCCCAU	17816
5863	GGGCUAAC U UCAAGGCG	2509	CGCCUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUUAGCCC	17817
5866	CUAACUUC A AGGCGAGC	2510	GCUCGCCU CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUAG	17818
5875	AGGCGAGC A GGGUGAUU	2511	AAUCACCC CUGAUGAG	GCCGUUAGGC	CGAA ICUCGCCU	17819
5887	UGAUUGAC A GCCGGAAG	2512	CUUCGGGC CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUCA	17820
5890	UUGACAGC C GGAAGAGU	2513	ACUCUUCU CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCAA	17821
5906	UGUGAAAC C AACCAUCA	2514	UGAUGGUU CUGAUGAG	GCCGUUAGGC	CGAA IUUUCACA	17822
5907	GUGAAACC A ACCAUCAU	2515	AUGAUGGU CUGAUGAG	GCCGUUAGGC	CGAA IGUUCAC	17823
5910	AAACCAAC C AUCAUAAC	2516	GUUAUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUUU	17824
5911	AACCAACC A UCAUAACA	2517	UGUUAUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGUU	17825
5914	CAACCAUC A UAACAGAA	2518	UUCUGUUA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUUG	17826
5919	AUCAUAAC A GAAGGAGA	2519	UCUCCUUC CUGAUGAG	GCCGUUAGGC	CGAA IUUAUGAU	17827
5941	GAGUGAUC C UGGGAGAA	2520	UUCUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IAUACACU	17828
5942	AGUGAUCC U GGGAGAAC	2521	GUUCUCCC CUGAUGAG	GCCGUUAGGC	CGAA IGAUCACU	17829
5951	GGGAGAAC C AUCUGCAG	2522	CUGCAGAU CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCCC	17830
5952	GGAGAACC A UCUGCAGU	2523	ACUGCAGA CUGAUGAG	GCCGUUAGGC	CGAA IGUUCUCC	17831
5955	GAACCAUC U GCAGUGAC	2524	GUCACUGC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUUC	17832
5958	CCAUCUGC A GUGACAGC	2525	GCUGUCAC CUGAUGAG	GCCGUUAGGC	CGAA ICAGAUUG	17833
5964	GCAGUGAC A GCAGCUAG	2526	CUAGCUGC CUGAUGAG	GCCGUUAGGC	CGAA IUCACUGC	17834
5967	GUGACAGC A GCUAGUGC	2527	GCACUAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCAC	17835
5970	ACAGCAGC U AGUGCCGC	2528	GCGGCACU CUGAUGAG	GCCGUUAGGC	CGAA ICUGCUGU	17836
5976	GCUAGUGC C GCCCAGAG	2529	CUCUGGCG CUGAUGAG	GCCGUUAGGC	CGAA ICACUAGC	17837
5979	AGUGCCGC C CAGAGACG	2530	CGUCUCUG CUGAUGAG	GCCGUUAGGC	CGAA ICGGCACU	17838
5980	GUGCCGCC C AGAGACGU	2531	ACGUCUCU CUGAUGAG	GCCGUUAGGC	CGAA ICGGCAC	17839
5981	UGCCGCC C A GAGACGUG	2532	CACGUCUC CUGAUGAG	GCCGUUAGGC	CGAA IGGCGGCA	17840
6008	UAGAAUUC C GUCGCAAG	2533	CUUGCGAC CUGAUGAG	GCCGUUAGGC	CGAA IAUUUCUA	17841
6014	UCCGUCGC A AGUUGGUG	2534	CACCAACU CUGAUGAG	GCCGUUAGGC	CGAA ICGACGGA	17842
6031	AUGAGUAC U GUUAUGGG	2535	CCCAUAAC CUGAUGAG	GCCGUUAGGC	CGAA IUACUCAU	17843
6044	UGGGGGGC A CAGAAUG	2536	CAUUCGUG CUGAUGAG	GCCGUUAGGC	CGAA ICCCCCCA	17844
6046	GGGGGCAC A CGAAUGAA	2537	UUCAUUCG CUGAUGAG	GCCGUUAGGC	CGAA IUCCCCC	17845
6061	AAGACGAC U CGAACUUC	2538	GAAGUUCG CUGAUGAG	GCCGUUAGGC	CGAA IUCGCUU	17846
6067	ACUCGAAC U UCGCCCAU	2539	AUGGGCGA CUGAUGAG	GCCGUUAGGC	CGAA IUUCGAGU	17847
6072	AACUUCGC C CAUUGGAC	2540	GUCCAAUG CUGAUGAG	GCCGUUAGGC	CGAA ICGAAGUU	17848
6073	ACUUCGCC C AUUGGACU	2541	AGUCCAAC CUGAUGAG	GCCGUUAGGC	CGAA ICGCAGAU	17849
6074	CUUCGCC C A UUGGACUG	2542	CAGUCCAA CUGAUGAG	GCCGUUAGGC	CGAA IGGCGAAG	17850
6081	CAUUGGAC U GAGGCACG	2543	CGUGCCUC CUGAUGAG	GCCGUUAGGC	CGAA IUCCAAUG	17851
6087	ACUGAGGC A CGAAUCAU	2544	AUGAUUCG CUGAUGAG	GCCGUUAGGC	CGAA ICCUCAGU	17852
6094	CACGAAUC A UGCUGGAC	2545	GUCCGACA CUGAUGAG	GCCGUUAGGC	CGAA IAUUCGUG	17853
6098	AAUCAUGC U GGACAACA	2546	UGUUGUCC CUGAUGAG	GCCGUUAGGC	CGAA ICAUGAUU	17854
6103	UGCUGGAC A ACAUCAAC	2547	GUUGAUGU CUGAUGAG	GCCGUUAGGC	CGAA IUCCAGCA	17855
6106	UGGACAAC A UCAACAUG	2548	CAUGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCCA	17856
6109	ACAACAUC A ACAUGCCA	2549	UGGCAUGU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUGU	17857
6112	ACAUCAAC A UGCCAAC	2550	GUUUGGCA CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUGU	17858
6116	CAACAUGC C AACCGGAC	2551	GUCCGUUU CUGAUGAG	GCCGUUAGGC	CGAA ICAUGUUG	17859
6117	ACAUGGCC A AACGGACU	2552	AGUCCGUU CUGAUGAG	GCCGUUAGGC	CGAA ICGAAGUU	17860
6125	AAACGGAC U GAUCGUC	2553	GAGCGAUC CUGAUGAG	GCCGUUAGGC	CGAA IUCCGUUU	17861
6132	CUGAUCGC U CAAUUCUA	2554	UAGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA ICGAUCAG	17862
6134	GAUCGCUC A AUUCUACC	2555	GGUAGAAU CUGAUGAG	GCCGUUAGGC	CGAA IAGCGAUC	17863
6139	CUCAAUUC U ACCAACCA	2556	UGGUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGAG	17864
6142	AAUUCUAC C AACAGAG	2557	CUCUGGUU CUGAUGAG	GCCGUUAGGC	CGAA IUAGAAUU	17865
6143	AUUCUACC A ACCAGAGC	2558	GCUCUGGU CUGAUGAG	GCCGUUAGGC	CGAA IGUAGAAU	17866
6146	CUACCAAC C AGAGCGUG	2559	CACGCUCU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUAG	17867

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6147	UACCAACC A GAGCGUGA	2560	UCACGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUGGUA	17868
6168	GUUAUAC C AUGGAUGG	2561	CCAUCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUAUAC	17869
6169	UAUAUACC A UGGAUGGG	2562	CCCAUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUAUAUA	17870
6184	GGGAUAC C GGCUCAGA	2563	UCUGAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUAUCCC	17871
6188	AUACCGGC U CAGAGGAG	2564	CUCCUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGGUAU	17872
6190	ACCGGCUC A GAGGAGAA	2565	UUCUCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCGGU	17873
6211	GA AAAAAC U UUCUGGAA	2566	UUCAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUUUUC	17874
6215	AAACUUUC U GGAACUGU	2567	ACAGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGUUU	17875
6221	UCUGGAAC U GUUGAGGA	2568	UCCUCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUCAA	17876
6231	UUGAGGAC U GCAGAUUC	2569	AGAUCUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCUCA	17877
6234	AGGACUGC A GAUCUGCC	2570	GGCAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUCCU	17878
6239	UGCAGAU C GCCAGUUU	2571	AAACUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCUGCA	17879
6242	AGAUCUGC C AGUUUGGC	2572	GCCAAACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGAUUC	17880
6243	GAUCUGCC A GUUUGGCU	2573	AGCCAAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAGAU C	17881
6251	AGUUUGGC U GGCUAACA	2574	UGUAAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAAACU	17882
6255	UGGCUGGC U UACAAGGU	2575	ACCUUGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAGCCA	17883
6259	UGGCUUAC A AGGUUGCA	2576	UGCAACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAAGCCA	17884
6267	AAGGUUGC A GCGGCUGG	2577	CCAGCCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAACCUU	17885
6273	GCAGCGGC U GGAGUGUC	2578	GACACUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGCGUC	17886
6282	GGAGUGUC A UACCACGA	2579	UCGUGGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACACUCC	17887
6286	UGUCAUAC C ACGACCGG	2580	CCGGUCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAUGACA	17888
6287	GUCAUACC A CGACCGGA	2581	UCCGGUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUAUGAC	17889
6292	ACCACGAC C GGAGGUGG	2582	CCACCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGUGGU	17890
6304	GGUGGUGC U UUGAUGGU	2583	ACCAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACCACC	17891
6314	UGAUGGUC U UAGGACAA	2584	UUGUCCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCAUCA	17892
6315	GAUGGUCC U AGGACAAA	2585	UUUGUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGACCAUC	17893
6321	CCUAGGAC A AACACAAU	2586	AUUGUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCUAGG	17894
6325	GGACAAAC A CAAUUUUA	2587	UAAAUAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUGUCC	17895
6327	ACAAACAC A AUUUUAGA	2588	UCUAAAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUUUGU	17896
6340	UAGAAGAC A ACAACGAA	2589	UUCGUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUUCUA	17897
6343	AAGACAAC A ACGAAGUG	2590	CACUUCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGUCUU	17898
6358	UGGAAGUC A UCACGAAG	2591	CUUCUGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUCCA	17899
6361	AAGUCAUC A CGAAGCUU	2592	AAGCUUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCAUU	17900
6368	CACGAAGC U UGGUGAAA	2593	UUUACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUCGUG	17901
6386	GAAGAUUC U GAGGCCGC	2594	GCGGCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUCUUC	17902
6392	UCUGAGGC C GCGCUGGA	2595	UCCAGCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUCAGA	17903
6397	GGCCGCGC U GGAUUGAC	2596	GUCAAUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGCGGCC	17904
6408	AUUGACGC C AGGGUGUA	2597	UACACCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUCAAU	17905
6409	UUGACGCC A GGGUGUAC	2598	GUACACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUGCAA	17906
6418	GGGUGUAC U CGGAUCAC	2599	GUGAUCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAACCC	17907
6425	CUCGGAUC A CCAGGCAC	2600	GUGCCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAUCCGAG	17908
6427	CGGAUCAC C AGGCACUA	2601	UAGUGCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAUCCG	17909
6428	GGAUCACC A GGCACUA	2602	UVAGUGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGAUCC	17910
6432	CACGAGGC A CUAAAGGC	2603	GCCUUUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUGGUG	17911
6434	CCAGGCAC U AAAGGCGU	2604	ACGCCUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCCUGG	17912
6445	AGGCGUUC A AGGACUUC	2605	GAAGUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACGCCU	17913
6451	UCAAGGAC U UCGCCUCG	2606	CGAGGCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCUUGA	17914
6456	GACUUCGC C UCGGAAA	2607	UUUCCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAAGUC	17915
6457	ACUUCGCC U CGGAAAA	2608	UUUCCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGAAGU	17916
6471	AAACGUUC U CAGAUAGG	2609	CCUAUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACGUUU	17917
6473	ACGUUCUC A GAUAGGGC	2610	GCCCUAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAACGU	17918
6482	GAUAGGGC U CAUUGAGG	2611	CCUCAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCCUAUC	17919
6484	UAGGGCUC A UUGAGGUU	2612	AACCUCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCCUA	17920
6494	UGAGGUUC U GGGAAAGA	2613	UCUUUCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACCUCA	17921
6506	AAAGAUGC C UGAGCACU	2614	AGUGCUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUCUUU	17922
6507	AAGAUGCC U GAGCACUU	2615	AAGUCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAUCUU	17923
6512	GCCUGAGC A CUUCAUGG	2616	CCAUGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCAGGC	17924
6514	CUGAGCAC U UCAUGGGG	2617	CCCCAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCUCAG	17925
6517	AGCACUUC A UGGGGAAG	2618	CUUCCCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGUGCU	17926
6528	GGGAAGAC A UGGGAAGC	2619	GCUUCCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUCCC	17927
6537	UGGGAAGC A CUUGACAC	2620	GUGUCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUCCCA	17928

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6539	GGAAGCAC U UGACACCA	2621	UGGUGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCUUCC	17929
6544	CACUUGAC A CCAUGUAC	2622	GUACAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAAGUG	17930
6546	CUUGACAC C AUGUACGU	2623	ACGUACA U CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUCAAG	17931
6547	UUGACACC A UGUACGU	2624	AACGUACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUCA	17932
6561	GUUGUGGC C ACUGCAGA	2625	UCUGCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCACAAC	17933
6562	UUGUGGCC A CUGCAGAG	2626	CUCUGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCACAA	17934
6564	GUGGCCAC U GCAGAGAA	2627	UUCUCUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCCAC	17935
6567	GCCACUGC A GAGAAAGG	2628	CCUUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUGGC	17936
6585	GGAAGAGC U CACAGAAU	2629	AUUCUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUCC	17937
6587	AAGAGCUC A CAGAAUGG	2630	CCAUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCUCU	17938
6589	GAGCUCAC A GAAUGGCC	2631	GGCCAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAGCUC	17939
6597	AGAAUGGC C CUGGAGGA	2632	UCCUCCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAUUCU	17940
6598	GAUUGGCC C UGGAGGAA	2633	UUCUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCAUCU	17941
6599	AAUGGCC U GGAGGAAC	2634	GUUCCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCAU	17942
6608	GGAGGAAC U GCCAGAUG	2635	CAUCUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCCUCC	17943
6611	GGAAUCGC C AGAUGCUC	2636	GAGCAUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUUC	17944
6612	GAACUGCC A GAUGCUCU	2637	AGAGCAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAGUUC	17945
6618	CCAGAUGC U CUUCAGAC	2638	GUCUGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUCUGG	17946
6620	AGAUGCUC U UCAGACAA	2639	UUGUCUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCAUCU	17947
6623	UGCUCUUC A GACAAUUG	2640	CAAUUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGAGCA	17948
6627	CUUCAGAC A AUUGCCU	2641	AAGGCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUAG	17949
6633	ACAAUUGC C UUGAUUGC	2642	GCAAUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAUUGU	17950
6634	CAAUUGCC U UGAUUGCC	2643	GGCAAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAAUUG	17951
6642	UUGAUUGC C UUAUUGAG	2644	CUCAAUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAUCAA	17952
6643	UGAUUGCC U UAUUGAGU	2645	ACUCAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAAUCA	17953
6660	GUGAUGAC C AUGGGAGU	2646	ACUCCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAUCAC	17954
6661	UGAUGACC A UGGGAGUA	2647	UACUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCAUCA	17955
6673	GAGUAUUC U UCCUCCUC	2648	GAGGAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUACUC	17956
6676	UAUUCUUC C UCCUCAUG	2649	CAUGAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAUA	17957
6677	AUUCUUC C CCUCAUGC	2650	GCAUGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGAAU	17958
6679	UCUUCUUC C UCAUGCAG	2651	CUGCAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAAGA	17959
6680	CUUCUCC U CAUGCAGC	2652	GCUGCAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGGAAG	17960
6682	UCCUCCUC A UGCAGCGG	2653	CCGCUGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAGGA	17961
6686	CCUCAUGC A GCGGAAGG	2654	CCUCCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUGAGG	17962
6697	GGAAAGGC A UUGGAAAG	2655	CUUCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUUC	17963
6723	GAAGGCGC U GUCUUGGG	2656	CCCAAGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGCCUCC	17964
6727	GCGCUGC U UGGGAGUC	2657	GACUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAGCGC	17965
6741	GUCGCGAC C UUUUUCUG	2658	CAGAAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGCGAC	17966
6742	UCGCGACC U UUUUCUGU	2659	ACAGAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCGCGA	17967
6748	CCUUUUC U GUUGGAG	2660	CAUCCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAAAGG	17968
6759	UGGAUGGC U GAAGUUC	2661	GGAACUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAUCCA	17969
6767	UGAAGUUC C AGGAACGA	2662	UCGUUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUUA	17970
6768	GAGUUC C GGAACGAA	2663	UUCGUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACUUC	17971
6783	AAGAUUGC C GGAUUGU	2664	AACAUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUCU	17972
6794	AAUGUUC U GCUCUCC	2665	GGGAGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAACA	17973
6797	GUUGUGC U CUCCUUC	2666	GAAGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGCAAC	17974
6799	UGCUGCUC U CCCUUCUC	2667	GAGAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCAGCA	17975
6801	CUGCUCUC C CUUCUCU	2668	AAGAGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGCAG	17976
6802	UGCUCUC C UUCUCUUG	2669	CAAGAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGAGCA	17977
6803	GCUCUCC U UCUCUUGA	2670	UCAAGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAGAGC	17978
6806	GUCCUUC U CUUGAUGA	2671	UCAUCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGGAG	17979
6808	CCUUCUC U UGAUGAU	2672	AAUCAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAAGG	17980
6821	GAUUGUC U AAUUCUG	2673	CAGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACAUC	17981
6827	GCUAUUC C UGAGCCAG	2674	CUGGCUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUAGC	17982
6828	CUAAUUC U GAGCCAGA	2675	UCUGGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUAG	17983
6833	UCCUGAGC C AGAGAAGC	2676	GCUCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCAGGA	17984
6834	CCUGAGCC A GAGAAGCA	2677	UGCUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUCAGG	17985
6842	AGAGAAGC A ACGUUCGC	2678	GCGAACGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUCUCU	17986
6851	ACGUUCGC A GACAGACA	2679	UGUCUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAACGU	17987
6855	UCGCAGAC A GACAACCA	2680	UGGUUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGCGA	17988
6859	AGACAGAC A ACCAGCTA	2681	UAGCUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUGUCU	17989

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6862	CAGACAAC C AGCUAGCC	2682	GGCUAGCU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCUG	17990
6863	AGACAACC A GCUAGCCG	2683	CGGCUAGC CUGAUGAG	GCCGUUAGGC	CGAA IGUUGUCU	17991
6866	CAACCAGC U AGCCGUGU	2684	ACACGGCU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGUUG	17992
6870	CAGCUAGC C GUGUCCU	2685	AGGAACAC CUGAUGAG	GCCGUUAGGC	CGAA ICUAGCUG	17993
6877	CCGUGUUC C UGAUUUGU	2686	ACAAAUCA CUGAUGAG	GCCGUUAGGC	CGAA IAACACGG	17994
6878	CGUGUUC U GAUUUGUG	2687	CACAAUC CUGAUGAG	GCCGUUAGGC	CGAA IGAACACG	17995
6889	UUUGUGC A UGACCCU	2688	AAGGUGCA CUGAUGAG	GCCGUUAGGC	CGAA IACACAAA	17996
6894	GUCAUGAC C CUUGUGAG	2689	CUCACAAG CUGAUGAG	GCCGUUAGGC	CGAA IUCAUGAC	17997
6895	UCAUGACC C UUGUGAGC	2690	GCUCACAA CUGAUGAG	GCCGUUAGGC	CGAA IGUCAUGA	17998
6896	CAUGACCC U UGUGAGCG	2691	CGCUCACA CUGAUGAG	GCCGUUAGGC	CGAA IGGUCAUG	17999
6906	GUGAGCGC A GUGGCAGC	2692	GCUGCCAC CUGAUGAG	GCCGUUAGGC	CGAA ICGCUCAC	18000
6912	GCAGUGGC A GCCAACGA	2693	UCGUUGGC CUGAUGAG	GCCGUUAGGC	CGAA ICCACUGC	18001
6915	GUGGCAGC C AACGAGAU	2694	AUCUCGUU CUGAUGAG	GCCGUUAGGC	CGAA ICUGCCAC	18002
6916	UGGCAGCC A ACGAGAUG	2695	CAUCUCGU CUGAUGAG	GCCGUUAGGC	CGAA IGCUGCCA	18003
6932	GGUUGUC U AGAUAAGA	2696	UCUUAUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCAACCC	18004
6942	GAUAAGAC C AAGAGUGA	2697	UCACUCUU CUGAUGAG	GCCGUUAGGC	CGAA IUCUUAUC	18005
6943	AUAAGACC A AGAGUGAC	2698	GUCACUCU CUGAUGAG	GCCGUUAGGC	CGAA IGUCUUAU	18006
6952	AGAGUGAC A UAAGCAGU	2699	ACUGCUUA CUGAUGAG	GCCGUUAGGC	CGAA IUCACUCU	18007
6958	ACAUAAAGC A GUUUGUUU	2700	AAACAAAC CUGAUGAG	GCCGUUAGGC	CGAA ICUUAUGU	18008
6971	GUUUGGGC A AAGAAUUG	2701	CAAUUCUU CUGAUGAG	GCCGUUAGGC	CGAA ICCCAAAC	18009
6985	UUGAGGUC A AGGAGAAU	2702	AUUCUCCU CUGAUGAG	GCCGUUAGGC	CGAA IACCUCAA	18010
6997	AGAAUUUC A GCAUGGGA	2703	UCCCAUGC CUGAUGAG	GCCGUUAGGC	CGAA IAAAUUCU	18011
7000	AUUUCAGC A UGGGAGAG	2704	CUCUCCCA CUGAUGAG	GCCGUUAGGC	CGAA ICUGAAAU	18012
7013	AGAGUUUC U UUUGGACU	2705	AGUCCAAA CUGAUGAG	GCCGUUAGGC	CGAA IAAACUCU	18013
7021	UUUUGGAC U UGAGGCCG	2706	CGGCCUCA CUGAUGAG	GCCGUUAGGC	CGAA IUCCAAAA	18014
7028	CUUGAGGC C GGCAACAG	2707	CUGUUGCC CUGAUGAG	GCCGUUAGGC	CGAA ICCUCAAG	18015
7032	AGGCCGGC A ACAGCCUG	2708	CAGGCGU CUGAUGAG	GCCGUUAGGC	CGAA ICCGGCCU	18016
7035	CCGGCAAC A GCCUGGUC	2709	GACCAGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGCCGG	18017
7038	GCAACAGC C UGGUCACU	2710	AGUGACCA CUGAUGAG	GCCGUUAGGC	CGAA ICUGUUGC	18018
7039	CAACAGCC U GGUACUG	2711	CAGUGACC CUGAUGAG	GCCGUUAGGC	CGAA IGCUGUUG	18019
7044	GCCUGGUC A CUGUACGC	2712	GCGUACAG CUGAUGAG	GCCGUUAGGC	CGAA IACCAGGC	18020
7046	CUGGUAC U GUACGCUG	2713	CAGCGUAC CUGAUGAG	GCCGUUAGGC	CGAA IUGACCAG	18021
7053	CUGUACGC U GUGACAAC	2714	GUUGUCAC CUGAUGAG	GCCGUUAGGC	CGAA ICGUACAG	18022
7059	GCUGUGAC A ACAGCGGU	2715	ACCGCGU CUGAUGAG	GCCGUUAGGC	CGAA IUACAGC	18023
7062	GUGACAAC A GCGGUCCU	2716	AGGACCGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCAC	18024
7069	CAGCGGUC C UCACUCCA	2717	UGGAGUGA CUGAUGAG	GCCGUUAGGC	CGAA IACCGCUG	18025
7070	AGCGGUCC U CACUCCAC	2718	GUGGAGUG CUGAUGAG	GCCGUUAGGC	CGAA IGACCGCU	18026
7072	CGGUCCUC A CUCCACUG	2719	CAGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGGACCG	18027
7074	GUCCUCAC U CCACUGCU	2720	AGCAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IUGAGGAC	18028
7076	CCUCACUC C ACUGCUAA	2721	UUAGCAGU CUGAUGAG	GCCGUUAGGC	CGAA IAGUGAGG	18029
7077	CUCACUCC A CUGCUAAA	2722	UUUAGCAG CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGAG	18030
7079	CACUCCAC U GCUAAAGC	2723	GCUUUAGC CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGUG	18031
7082	UCCACUGC U AAAGCAUU	2724	AAUGCUUU CUGAUGAG	GCCGUUAGGC	CGAA ICAGUGGA	18032
7088	GCUAAAGC A UUUGAUA	2725	UGAUCAA CUGAUGAG	GCCGUUAGGC	CGAA ICUUAGC	18033
7096	AUUUGAUC A CGUCAGAU	2726	AUCGACG CUGAUGAG	GCCGUUAGGC	CGAA IAUCAAU	18034
7101	AUCACGUC A GAUUAU	2727	AUGUAAUC CUGAUGAG	GCCGUUAGGC	CGAA IACGUGAU	18035
7108	CAGAUUAC A UCAACACC	2728	GGUGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUAAUCUG	18036
7111	AUUACAUC A ACACCUCA	2729	UGAGGUGU CUGAUGAG	GCCGUUAGGC	CGAA IAUGUAAU	18037
7114	ACAUCAAC A CCUCAUUG	2730	CAUUGAGG CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUGU	18038
7116	AUCAACAC C UCAUUGAC	2731	GUCAAUGA CUGAUGAG	GCCGUUAGGC	CGAA IUGUUGAU	18039
7117	UCAACACC U CAUUGACC	2732	GGUCAAUG CUGAUGAG	GCCGUUAGGC	CGAA IGUGUUGA	18040
7119	AACACCUC A UUGACCUC	2733	GAGGUCAA CUGAUGAG	GCCGUUAGGC	CGAA IAGGUGUU	18041
7125	UCAUUGAC C UCAAUAAA	2734	UUUAUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUGA	18042
7126	CAUUGACC U CAUAAAC	2735	GUUAUUG CUGAUGAG	GCCGUUAGGC	CGAA IGUCAAUG	18043
7128	UUGACCUC A AUAAACGU	2736	ACGUUUAU CUGAUGAG	GCCGUUAGGC	CGAA IAGGUCAA	18044
7139	AAACGUUC A GGCAAGUG	2737	CACUUGCC CUGAUGAG	GCCGUUAGGC	CGAA IAACGUUU	18045
7143	GUUCAGGC A AGUGCACU	2738	AGUGCACU CUGAUGAG	GCCGUUAGGC	CGAA ICCUGAAC	18046
7149	GCAAGUGC A CUAUUCAC	2739	GUGAAUAG CUGAUGAG	GCCGUUAGGC	CGAA ICACUUGC	18047
7151	AAGUGCAC U AUUCACAC	2740	GUGUGAAU CUGAUGAG	GCCGUUAGGC	CGAA IUGCACUU	18048
7156	CACUAUUC A CACUGCGG	2741	CGCGAGU CUGAUGAG	GCCGUUAGGC	CGAA IAAUAGUG	18049
7158	CUAUUCAC A CUCGCGCG	2742	CGCGCGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGAAUAG	18050

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7160	AUUCACAC U CGCGCGAG	2743	CUCGCGCG CUGAUGAG	GCCGUUAGGC	CGAA IUGUGAAU	18051
7171	CGCGAGGC U UCCCUUC	2744	GAAGGGGA CUGAUGAG	GCCGUUAGGC	CGAA ICCUCGCG	18052
7174	GAGGCUUC C CCUUCGUC	2745	GACGAAGG CUGAUGAG	GCCGUUAGGC	CGAA IAAGCCUC	18053
7175	AGGCUUCC C CUUCGUCC	2746	CGACGAAG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGCCU	18054
7176	GGCUUCCC C UUCGUCGA	2747	UCGACGAA CUGAUGAG	GCCGUUAGGC	CGAA IGGAAGCC	18055
7177	GCUUCCCC U UCGUCGAU	2748	AUCGACGA CUGAUGAG	GCCGUUAGGC	CGAA IGGGAAGC	18056
7200	GUGUGGGC U CUUCGUCU	2749	AGCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ICCGACAC	18057
7202	GUCGGGUC U CCUGCUAG	2750	CUAGCAGG CUGAUGAG	GCCGUUAGGC	CGAA IAGCGAC	18058
7204	CGGCUCUC C UGCUAGCA	2751	UGCUAGCA CUGAUGAG	GCCGUUAGGC	CGAA IAGAGCCG	18059
7205	GGCUCUCC U GCUAGCAG	2752	CUGCUAGC CUGAUGAG	GCCGUUAGGC	CGAA IGAGAGCC	18060
7208	UCUCCUGC U AGCAGCCG	2753	CGGCUGCU CUGAUGAG	GCCGUUAGGC	CGAA ICAGGAGA	18061
7212	CUGCUAGC A GCCGGAUG	2754	CAUCCGGC CUGAUGAG	GCCGUUAGGC	CGAA ICUAGCAG	18062
7215	CUAGCAGC C GGAUGCUG	2755	CAGCAUCC CUGAUGAG	GCCGUUAGGC	CGAA ICUGCUAG	18063
7222	CCGGAUGC U GGGGACAA	2756	UUGUCCCC CUGAUGAG	GCCGUUAGGC	CGAA ICAUCCGG	18064
7229	CUGGGGAC A AGUCACCC	2757	AGGAGGCU CUGAUGAG	GCCGUUAGGC	CGAA IUCGCCAG	18065
7234	GACAAGUC A CCCUCACC	2758	GGUGAGGG CUGAUGAG	GCCGUUAGGC	CGAA IACUUGUC	18066
7236	CAAGUCAC C CUCACCGU	2759	ACGGUGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGACUUG	18067
7237	AAGUCACC C UCACCGUU	2760	AACGGUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUGACUU	18068
7238	AGUCACCC U CACCGUUA	2761	UAACGGUG CUGAUGAG	GCCGUUAGGC	CGAA IGGUGACU	18069
7240	UCACCCUC A CCGUUAACG	2762	CGUAACGG CUGAUGAG	GCCGUUAGGC	CGAA IAGGGUGA	18070
7242	ACCCUCAC C GUUACGGU	2763	ACCGUAAC CUGAUGAG	GCCGUUAGGC	CGAA IUGAGGGU	18071
7254	ACGGUAC A GCGCAAC	2764	GUUGCCGC CUGAUGAG	GCCGUUAGGC	CGAA IUUACCGU	18072
7260	ACAGCGGC A ACACUCCU	2765	AGGAGUGU CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGU	18073
7263	GCGGCAAC A CUCCUUUU	2766	AAAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUUGCCGC	18074
7265	GGCAACAC U CCUUUUUU	2767	AAAAAAGG CUGAUGAG	GCCGUUAGGC	CGAA IUGUUGCC	18075
7267	CAACACUC C UUUUUUGC	2768	GCAAAAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUUG	18076
7268	AACACUCC U UUUUUGCC	2769	GGCAAAAA CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGUU	18077
7276	UUUUUUGC C ACUAUGCC	2770	GGCAUAGU CUGAUGAG	GCCGUUAGGC	CGAA ICAAAAAA	18078
7277	UUUUUGCC A CUAUGCCU	2771	AGGCAUAG CUGAUGAG	GCCGUUAGGC	CGAA IGCAAAAA	18079
7279	UUUGCCAC U AUGCCUAC	2772	GUAGGCAU CUGAUGAG	GCCGUUAGGC	CGAA IUGGCAAA	18080
7284	CACUAUGC C UACAUGGU	2773	ACCAUGUA CUGAUGAG	GCCGUUAGGC	CGAA ICAUAUGU	18081
7285	ACUAUGCC U ACAUGGUU	2774	AACCAUGU CUGAUGAG	GCCGUUAGGC	CGAA IGCAUAGU	18082
7288	AUGCCUAC A UGUUCCC	2775	GGGAACCA CUGAUGAG	GCCGUUAGGC	CGAA IUAGGCAU	18083
7295	CAUGGUUC C CGGUUGGC	2776	GCCAACCG CUGAUGAG	GCCGUUAGGC	CGAA IAACCAUG	18084
7296	AUGGUUCC C GGUUGGCA	2777	UGCCAACC CUGAUGAG	GCCGUUAGGC	CGAA IGAACCAU	18085
7304	CGGUUGGC A AGCUGAGG	2778	CCUCAGCU CUGAUGAG	GCCGUUAGGC	CGAA ICCAACCG	18086
7308	UGGCAAGC U GAGGCAAU	2779	AUUGCCUC CUGAUGAG	GCCGUUAGGC	CGAA ICUUGCCA	18087
7314	GCUGAGGC A AUGCGCUC	2780	CAGCGCAU CUGAUGAG	GCCGUUAGGC	CGAA ICCUCAGC	18088
7321	CAUUGGC U CAGCCCAG	2781	GUGGGCUG CUGAUGAG	GCCGUUAGGC	CGAA ICGCAUUG	18089
7323	AUGCGCUC A GCCCAGCG	2782	CGCUGGGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCGCAU	18090
7326	CGCUCAGC C CAGCGGCG	2783	CGCCGCGU CUGAUGAG	GCCGUUAGGC	CGAA ICUGAGCG	18091
7327	GCUCAGCC C AGCGGCGG	2784	CGCCGCGU CUGAUGAG	GCCGUUAGGC	CGAA IGCUGAGC	18092
7328	CUCAGCCC A GCGGCGGA	2785	UCCGCCCG CUGAUGAG	GCCGUUAGGC	CGAA IGGCUGAG	18093
7338	CGGCGGAC A GCGGCCGG	2786	CCGGCCCG CUGAUGAG	GCCGUUAGGC	CGAA IUCCGCCG	18094
7344	ACAGCGGC C GGAUUAU	2787	AUGAUUCC CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGU	18095
7351	CCGGAUUC A UGAAGAAC	2788	GUUCUUA CUGAUGAG	GCCGUUAGGC	CGAA IAUCCGG	18096
7362	AAGAACGC U GUAGUGGA	2789	UCCACUAC CUGAUGAG	GCCGUUAGGC	CGAA ICGUUCUU	18097
7375	UGGAUGGC A UCGUGGCC	2790	GGCCACGA CUGAUGAG	GCCGUUAGGC	CGAA ICCAUCCA	18098
7383	AUCGUGGC C ACGGACGU	2791	ACGUCCGU CUGAUGAG	GCCGUUAGGC	CGAA ICCACGAU	18099
7384	UCGUGGCC A CGGACGUC	2792	GACGUCCG CUGAUGAG	GCCGUUAGGC	CGAA IGCCACGA	18100
7393	CGGACGUC C CAGAAUUA	2793	UAAUUCUG CUGAUGAG	GCCGUUAGGC	CGAA IACGUCCG	18101
7394	GGACGUCC C AGAAUUA	2794	CUAAUUCU CUGAUGAG	GCCGUUAGGC	CGAA IGACGUCC	18102
7395	GACGUCCC A GAAUAGA	2795	UCUAAUUC CUGAUGAG	GCCGUUAGGC	CGAA IGGACGUC	18103
7408	UAGAGCGC A CCACACCC	2796	GGUGUGGG CUGAUGAG	GCCGUUAGGC	CGAA ICGUCUA	18104
7410	GAGCGCAC C ACACCAU	2797	AUGGGUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGCGCUC	18105
7411	AGCGCACC A CACCAUC	2798	GAUGGGUG CUGAUGAG	GCCGUUAGGC	CGAA IGUGCGCU	18106
7413	CGCACCAC A CCAUCAU	2799	AUGAUGGG CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGCG	18107
7415	CACCACAC C CAUCAUGC	2800	GCAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA IUGUGUGU	18108
7416	ACCACACC C AUCAUGCA	2801	UGCAUGAU CUGAUGAG	GCCGUUAGGC	CGAA IGUGUGGU	18109
7417	CCACACCC A UCAUGCAG	2802	CUGCAUGA CUGAUGAG	GCCGUUAGGC	CGAA IGGUGUGG	18110
7420	CACCAUUC A UGCAGAAG	2803	CUUCUGCA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGUG	18111

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7424	CAUCAUGC A GAAGAAAG	2804	CUUUCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUGAUG	18112
7439	AGUUGGAC A GAUCAUGC	2805	GCAUGAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCAACU	18113
7444	GACAGAUC A UGCUGAUC	2806	GAUCAGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCUGUC	18114
7448	GAUCAUGC U GAUCUUGG	2807	CCAAGAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUGAUC	18115
7453	UGCUGAUC U UGGUGUCU	2808	AGACACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCAGCA	18116
7461	UUGGUGUC U CUAGCUGC	2809	GCAGCUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACACCAA	18117
7463	GGUGUCUC U AGCUGCAG	2810	CUGCAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGACACC	18118
7467	UCUCUAGC U GCAGUAGU	2811	ACUACUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAGAGA	18119
7470	CUAGCUGC A GUAGUAGU	2812	ACUACUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGCUAG	18120
7483	UAGUGAAC C CGUCUGUG	2813	CACAGACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCACUA	18121
7484	AGUGAACC C GUCUGUGA	2814	UCACAGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUCACU	18122
7488	AACCCUGC U GUGAAGAC	2815	GUCUUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGGGUU	18123
7497	GUGAAGAC A GUACGAGA	2816	UCUCGUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUUCAC	18124
7509	CGAGAAGC C GGAAUUUU	2817	AAAAUUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUCUCG	18125
7522	UUUUGAUC A CGGCCGCA	2818	UGCGGCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCAAAA	18126
7527	AUCACGGC C GCAGCGU	2819	ACCGCUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGUGAU	18127
7530	ACGGCCGC A GCGGUGAC	2820	GUCACCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGCCGU	18128
7541	GGUGACGC U UUGGGAGA	2821	UCUCCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUCACC	18129
7557	AAUGGAGC A AGCUCUGU	2822	ACAGAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCCAUU	18130
7561	GAGCAAGC U CUGUUUGG	2823	CCAAACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUGCUC	18131
7563	GCAAGCUC U GUUUGGAA	2824	UUCCAAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCUUGC	18132
7575	UGGAACGC A ACAACUGC	2825	GCAGUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUCCA	18133
7578	AACGCAAC A ACUGCCAU	2826	AUGGCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGCGUU	18134
7581	GCAACAAC U GCCAUCGG	2827	CCGAUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGUUGC	18135
7584	ACAACUGC C AUCGGACU	2828	AGUCCGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUUUG	18136
7585	CAACUGCC A UCGGACUC	2829	GAGUCCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAGUUG	18137
7592	CAUCGGAC U CUGCCACA	2830	UGUGGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCGAUG	18138
7594	UCGGACUC U GCCACAUC	2831	GAUGUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUCCGA	18139
7597	GACUCUGC C ACAUCAUG	2832	CAUGAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGAGUC	18140
7598	ACUCUGCC A CAUCAUGC	2833	GCAUGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAGAGU	18141
7600	UCUGCCAC A UCAUGCGU	2834	ACGCAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCAGA	18142
7603	GCCACAUC A UGCGUGGG	2835	CCACGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGGC	18143
7623	UGGUUGUC A UGUUAUC	2836	GAUAGACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAACCA	18144
7628	GUCAUGUC U AUCCAUA	2837	UUAUGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAUGAC	18145
7632	UGUCUAUC C AUAACAUG	2838	CAUGUUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAGACA	18146
7633	GUCUAUCC A UAACAUGG	2839	CCAUGUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUAGAC	18147
7638	UCCAUAAC A UGGACACU	2840	AGUGUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUAUGGA	18148
7644	ACAUGGAC A CUCAUAAA	2841	UUUAUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCAUGU	18149
7646	AUGGACAC U CAUAAAGA	2842	UCUUUAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUCUUA	18150
7648	GGACACUC A UAAAGAAC	2843	GUUCUUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGUCC	18151
7657	UAAAGAAC A UGGAAAAA	2844	UUUUUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUUUA	18152
7667	GGAAAAAC C AGGACUAA	2845	UUAGUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUUUCC	18153
7668	GAAAAACC A GGACUAAA	2846	UUUAGUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUUUUC	18154
7673	ACCAGGAC U AAAAAGAG	2847	CUCUUUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCUGGU	18155
7689	GGUGGGGC A AAAGGACG	2848	CGUCCUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCCCACC	18156
7699	AAGGACGC A CCUUGGGA	2849	UCCCAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUCCUU	18157
7701	GGACGCAC C UUGGGAGA	2850	UCUCCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCGUCC	18158
7702	GACGCACC U UGGGAGAG	2851	CUCUCCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGCGUC	18159
7727	AGAAAGAC U CAACCAGA	2852	UCUGGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUUUCU	18160
7729	AAAGACUC A ACCAGAUG	2853	CAUCUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUCUUU	18161
7732	GACUCAAC C AGAUGACA	2854	UGUCAUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGAGUC	18162
7733	ACUCAACC A GAUGACAA	2855	UUGUCAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUGAGU	18163
7740	CAGAUGAC A AAAGAAGA	2856	UCUUCUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAUCUG	18164
7753	AAGAGUUC A CUAGGUAC	2857	GUACCUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACUCUU	18165
7755	GAGUUCAC U AGGUACCG	2858	CGGUACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAACUC	18166
7762	CUAGGUAC C GCAAAGAG	2859	CUCUUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACCUAG	18167
7765	GGUACCGC A AAGAGGCC	2860	GGCCUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGUACC	18168
7773	AAAGAGGC C AUCAUCGA	2861	UCGAUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUCUUU	18169
7774	AAGAGGCC A UCAUCGAA	2862	UUCGAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCUCUU	18170
7777	AGGCCAUC A UCGAAGUC	2863	GACUUCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGGCCU	18171
7792	UCGAUCGC U CAGCGGCA	2864	UGCCGCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAUCGA	18172

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7794	GAUCGCUC A GCGGCAAA	2865	UUUGCCGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCGAUC	18173
7800	UCAGCGGC A AAACACGC	2866	GCGUGUUU CUGAUGAG	GCCGUUAGGC	CGAA ICCGCUGA	18174
7805	GGCAAAAC A CGCCAGGA	2867	UCCUGGCG CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGCC	18175
7809	AAACACGC C AGGAAAGA	2868	UCUUUCCU CUGAUGAG	GCCGUUAGGC	CGAA ICGUGUUU	18176
7810	AACACGCC A GGAAAGAA	2869	UUCUUUCC CUGAUGAG	GCCGUUAGGC	CGAA ICGUGUUU	18177
7822	AAGAAGGC A AUGUCACU	2870	AGUGACAU CUGAUGAG	GCCGUUAGGC	CGAA ICCUUCUU	18178
7828	GCAUGUC A CUGGAGGG	2871	CCCUCGAG CUGAUGAG	GCCGUUAGGC	CGAA IACAUUGC	18179
7830	AAUGUCAC U GGAGGGCA	2872	UGCCCUCC CUGAUGAG	GCCGUUAGGC	CGAA IUGACAUU	18180
7838	UGGAGGGC A UCCAGUCU	2873	AGACUGGA CUGAUGAG	GCCGUUAGGC	CGAA ICCCUCCA	18181
7841	AGGGCAUC C AGUCUCUA	2874	UAGAGACU CUGAUGAG	GCCGUUAGGC	CGAA IAUGCCCU	18182
7842	GGGCAUCC A GUCUCUAG	2875	CUAGAGAC CUGAUGAG	GCCGUUAGGC	CGAA IGAUGCCC	18183
7846	AUCCAGUC U CUAGGGGC	2876	GCCCCUAG CUGAUGAG	GCCGUUAGGC	CGAA IACUGGAU	18184
7848	CCAGUCUC U AGGGGCAC	2877	GUGCCCUU CUGAUGAG	GCCGUUAGGC	CGAA IAGACUGG	18185
7855	CUAGGGGC A CAGCAAAA	2878	UUUUGCUG CUGAUGAG	GCCGUUAGGC	CGAA ICCCCUAG	18186
7857	AGGGGCAC A GCAAAACU	2879	AGUUUUGC CUGAUGAG	GCCGUUAGGC	CGAA IUGCCCCU	18187
7860	GGCACAGC A AAACUGAG	2880	CUCAGUUU CUGAUGAG	GCCGUUAGGC	CGAA ICUGUGCC	18188
7865	AGCAAAAC U GAGAUGGC	2881	GCCAUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGCU	18189
7874	GAGAUGGC U GGUCGAAC	2882	GUUCGACC CUGAUGAG	GCCGUUAGGC	CGAA ICCAUCUC	18190
7892	GAGGUUUC U CGAACCGG	2883	CCGGUUCG CUGAUGAG	GCCGUUAGGC	CGAA IAAACCUC	18191
7898	UCUCGAAC C GGUCGGAA	2884	UUCGACCC CUGAUGAG	GCCGUUAGGC	CGAA IUUCGAGA	18192
7918	UGAUUGAC C UUGGAUGU	2885	ACAUCCAA CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUCA	18193
7919	GAUUGACC U UGGAUGUG	2886	CACAUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGUCAAUC	18194
7948	GGUGUUAU C AUAUGGCA	2887	UGCCAUUA CUGAUGAG	GCCGUUAGGC	CGAA IUAACACC	18195
7956	UAUAUGGC A ACCCAAAA	2888	UUUUGGGU CUGAUGAG	GCCGUUAGGC	CGAA ICCAUAUA	18196
7959	AUGGCAAC C CAAAAAAG	2889	CUUUUUUG CUGAUGAG	GCCGUUAGGC	CGAA IUUGCCAU	18197
7960	UGGCAACC C AAAAAAGA	2890	UCUUUUUU CUGAUGAG	GCCGUUAGGC	CGAA IGUUGCCA	18198
7961	GGCAACCC A AAAAAGAG	2891	CUCUUUUU CUGAUGAG	GCCGUUAGGC	CGAA IGGUUGCC	18199
7972	AAAGAGUC C AAGAAGUC	2892	GACUUCUU CUGAUGAG	GCCGUUAGGC	CGAA IACUCUUU	18200
7973	AAGAGUCC A AGAAGUCA	2893	UGACUUCU CUGAUGAG	GCCGUUAGGC	CGAA IGACUCUU	18201
7981	AAGAAGUC A GAGGUUAC	2894	GUACCCUC CUGAUGAG	GCCGUUAGGC	CGAA IACUUCUU	18202
7990	GAGGUUAC A CAAAGGGC	2895	GCCCUUUG CUGAUGAG	GCCGUUAGGC	CGAA IUACCCUC	18203
7992	GGGUACAC A AAGGGCGG	2896	CCGCCCUU CUGAUGAG	GCCGUUAGGC	CGAA IUGUACCC	18204
8003	GGGCGGUC C CGGACAUG	2897	CAUGUCCG CUGAUGAG	GCCGUUAGGC	CGAA IACCGCCC	18205
8004	GGCGGUCC C GGACAUGA	2898	UCAUGUCC CUGAUGAG	GCCGUUAGGC	CGAA IGACCGCC	18206
8009	UCCCGGAC A UGAAGAGC	2899	GCUCUUCA CUGAUGAG	GCCGUUAGGC	CGAA IUCCGGGA	18207
8018	UGAAGAGC C CCAACUAG	2900	CUAGUUGG CUGAUGAG	GCCGUUAGGC	CGAA ICUCUUCA	18208
8019	GAAGAGCC C CAACUAGU	2901	ACUAGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGCUCUUC	18209
8020	AAGAGCCC C AACUAGUG	2902	CACUAGUU CUGAUGAG	GCCGUUAGGC	CGAA IGGUCUUU	18210
8021	AGAGCCCC A ACUAGUGC	2903	GCACUAGU CUGAUGAG	GCCGUUAGGC	CGAA IGGUCUUU	18211
8024	GCCCCAAC U AGUGCAAA	2904	UUUGCACU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGGGC	18212
8030	ACUAGUGC A AAGUUAUG	2905	CAUAACUU CUGAUGAG	GCCGUUAGGC	CGAA ICACUAGU	18213
8047	GAUGGAAC A UUGUCACC	2906	GGUGACAA CUGAUGAG	GCCGUUAGGC	CGAA IUUCCAUC	18214
8053	ACAUGUC A CCAUGAAG	2907	CUUCAUGG CUGAUGAG	GCCGUUAGGC	CGAA IACAAGUU	18215
8055	AUUGUCAC C AUGAAGAG	2908	CUCUUAU CUGAUGAG	GCCGUUAGGC	CGAA IUGACAAU	18216
8056	UUGUCACC A UGAAGAGU	2909	ACUCUUA CUGAUGAG	GCCGUUAGGC	CGAA IGUGACAA	18217
8080	AUGUGUUC U ACAGACCU	2910	AGGUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IAACCAU	18218
8083	UGUUCUAC A GACCUUCU	2911	AGAAGGUC CUGAUGAG	GCCGUUAGGC	CGAA IUAGAACA	18219
8087	CUACAGAC C UUCUGAGU	2912	ACUCAGAA CUGAUGAG	GCCGUUAGGC	CGAA IUCUGUAG	18220
8088	UACAGACC U UCUGAGUG	2913	CACUCAGA CUGAUGAG	GCCGUUAGGC	CGAA IGUCUGUA	18221
8091	AGACCUUC U GAGUGUUG	2914	CAACACUC CUGAUGAG	GCCGUUAGGC	CGAA IAAGGUCU	18222
8104	GUUGUGAC A CCCUCCUU	2915	AAGGAGGG CUGAUGAG	GCCGUUAGGC	CGAA IUCACAAC	18223
8106	UGUGACAC C CUCCUUUG	2916	CAAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCACA	18224
8107	GUGACACC C UCCUUUGU	2917	ACAAAGGA CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCAC	18225
8108	UGACACCC U CCUUUGUG	2918	CAAAAGG CUGAUGAG	GCCGUUAGGC	CGAA IGGUGUCA	18226
8110	ACACCCUC C UUUGUGAC	2919	GUCACAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGGGUGU	18227
8111	CACCCUCC U UUGUGACA	2920	UGUCACAA CUGAUGAG	GCCGUUAGGC	CGAA IGAGGGUG	18228
8119	UUUGUGAC A UCGGAGAG	2921	CUCUCCGA CUGAUGAG	GCCGUUAGGC	CGAA IUCACAAA	18229
8130	GGAGAGUC C UCGUCAAG	2922	CUUGACGA CUGAUGAG	GCCGUUAGGC	CGAA IACUCUCC	18230
8131	GAGAGUCC U CGUCAAGU	2923	ACUUGACG CUGAUGAG	GCCGUUAGGC	CGAA IGACUCUC	18231
8136	UCCUCGUC A AGUGCUGA	2924	UCAGCACU CUGAUGAG	GCCGUUAGGC	CGAA IACGAGGA	18232
8142	UCAAGUGC U GAGGUUGA	2925	UCAACCUC CUGAUGAG	GCCGUUAGGC	CGAA ICACUUGA	18233

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8156	UGAAGAGC A UAGGACGA	2926	UCGUCCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUUA	18234
8173	UUCGGGUC C UUGAAAUG	2927	CAUUTCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCCGAA	18235
8174	UCGGGUCC U UGAAAUGG	2928	CCAUUUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACCCGA	18236
8191	UUGAGGAC U GGCUGCAC	2929	GUGCAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCUCA	18237
8195	GGACUGGC U GCACCGAG	2930	CUCGGUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAGUCC	18238
8198	CUGGCUGC A CCGAGGGC	2931	GCCCUCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGCCAG	18239
8200	GGCUGCAC C GAGGGCCA	2932	UGGCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCAGCC	18240
8207	CCGAGGGC C AAGGGAU	2933	AUUCUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUCGG	18241
8208	CGAGGGCC A AGGGAUU	2934	AAUUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCUCG	18242
8231	GAAGGUGC U CUGCCCU	2935	AGGGGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCUUC	18243
8233	AGGUGCUC U GCCCCUAC	2936	GUAGGGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGACCU	18244
8236	UGCUCUGC C CCUACAUG	2937	CAUGUAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGAGCA	18245
8237	GCUCUGCC C CUACAUGC	2938	GCAUGUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAAGC	18246
8238	CUCUGCCC C UACAUGCC	2939	GGCAUGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCAGAG	18247
8239	UCUGCCCC U ACAUGCCG	2940	CGGCAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGCAGA	18248
8242	GCCCCUAC A UGCCGAAA	2941	UUUCGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAGGGGC	18249
8246	CUACAUGC C GAAAGUCA	2942	UGACUUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUGUAG	18250
8254	CGAAAGUC A UAGAGAAG	2943	CUUCUCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUUUCG	18251
8270	GAUGGAGC U GCUCCAAC	2944	GUUGGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCCAUC	18252
8273	GGAGCUGC U CCAACGCC	2945	GGCGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGCUCC	18253
8275	AGCUGCUC C AACGCCGG	2946	CCGGCGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCAGCU	18254
8276	GCUGCUC A ACGCCGGU	2947	ACCGCGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCAGC	18255
8281	UCCAACGC C GGUUAGGG	2948	CCCAUACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUUGGA	18256
8297	GGGGGGAC U GGUACAGAA	2949	UUCUGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCCCC	18257
8302	GACUGGUC A GAAACCCA	2950	UGGGUUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAGUC	18258
8308	UCAGAAAC C CACUCUCA	2951	UGAGAGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUCUGA	18259
8309	CAGAAACC C ACUCUCAC	2952	GUGAGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUCUG	18260
8310	AGAAACCC A CUCUCACG	2953	CGUGAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUUUCU	18261
8312	AAACCCAC U CUCACGGA	2954	UCCGUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGGUUU	18262
8314	ACCCACUC U CACGGAU	2955	AUUCGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGGGU	18263
8316	CCACUCUC A CGGAUUUC	2956	GAAUUCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGUGG	18264
8325	CGGAUUC C ACGCACGA	2957	UCGUGCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUUCGG	18265
8326	GGAAUUC C CGCACGAG	2958	CUCGUGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUCUCC	18266
8330	UCCACGC A CGAGUUGU	2959	ACAUCUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUGGAA	18267
8355	AGUCGAGC U UCAGGCAA	2960	UUGCCUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCGACU	18268
8358	CGAGCUUC A GGCAUUGU	2961	ACAUUGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGCUCG	18269
8362	CUUCAGGC A AUGUGGUA	2962	UACCACAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUGAAG	18270
8372	UGUGGUAC A UUCAGUGA	2963	UCACUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACCACA	18271
8376	GUACAUUC A GUGAAUUA	2964	AUAUUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUGUAC	18272
8388	AAUAUGAC C AGCCAGGU	2965	ACCUGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAUAU	18273
8389	AUAUGACC A GCCAGGUG	2966	CACUGGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAUAU	18274
8392	UGACCAGC C AGGUGCUC	2967	GAGCACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGGUCA	18275
8393	GACCAGCC A GGUGCUC	2968	GGAGCACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUGGUC	18276
8399	CCAGGUGC U CCUAGGAA	2969	UUCUAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACCUUG	18277
8401	AGGUGCUC C UAGGAAGA	2970	UCUCCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCACCU	18278
8402	GGUGCUC U AGGAAGAA	2971	UUCUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCAC	18279
8424	AAAAGGAC C UGGAAGGG	2972	CCCUUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCUUU	18280
8425	AAAGGACC U GGAAGGGA	2973	UCCCUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCCUU	18281
8435	GAAGGGAC C CCAUACG	2974	CGUAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCUUC	18282
8436	AAGGGACC C CAUACGA	2975	UCGUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCCUU	18283
8437	AGGGACCC C AAUACGAG	2976	CUCGUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUCCU	18284
8438	GGGACCCC A AUACGAGG	2977	CCUGUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGUCC	18285
8458	AUGUAAAC U UGGGAAGU	2978	ACUCCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUACAU	18286
8472	AGUGGAAC C AGGGCGGU	2979	ACCGCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCCAU	18287
8473	GUGGAACC A GGGCGGUG	2980	CACCGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCCAC	18288
8489	GGGAAAC C CCUGCUC	2981	UGAGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUUCC	18289
8490	GGAAACCC C CUGCUC	2982	UUGAGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUUCC	18290
8491	GAAACCCC C UGCUCAAC	2983	GUUGAGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUUU	18291
8492	AAAACCCC U GCUCAACU	2984	AGUUGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUUUU	18292
8495	ACCCUUC U CAACUCAG	2985	CUGAGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGGGU	18293
8497	CCCUUCUC A ACUCAGAC	2986	GUCUGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCAGG	18294

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8500	UGCUC AAC U CAGACACC	2987	GGUGUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGAGCA	18295
8502	CUCAACUC A GACACCAG	2988	CUGGUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUUGAG	18296
8506	ACUCAGAC A CCAGUAAA	2989	UUUACUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUGAGU	18297
8508	UCAGACAC C AGUAAA AU	2990	AUUUUACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUCUGA	18298
8509	CAGACACC A GUAAA AU	2991	GAUUUUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUCUG	18299
8518	GUAAA AU C AGAACAGG	2992	CCUGUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUUUAC	18300
8524	UCAAGAAC A GGAUUGAA	2993	UUCAAUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUUGA	18301
8537	UGAACGAC U CAGGCGUG	2994	CACGCCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGUUCA	18302
8539	AACGACUC A GCGUGAG	2995	CUCACGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUCGUU	18303
8551	GUGAGUAC A GUUCGACG	2996	CGUCGAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACUCAC	18304
8564	GACGUGGC A CCACGAUG	2997	CAUCGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCACGUC	18305
8566	CGUGGCAC C ACGAUGAG	2998	CAUCAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCCACG	18306
8567	GUGGCACC A CGAUGAGA	2999	UCUCAUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCCAC	18307
8578	AUGAGAAC C ACCCAU AU	3000	AUAUGGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUCAU	18308
8579	UGAGAACC A CCCAU AU	3001	UAUAUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUCUCA	18309
8581	AGAACCAC C CAUAUAGA	3002	UCUAUAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUUCU	18310
8582	GAACCACC C AUUAAGAA	3003	UUCUAU AU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUUUC	18311
8583	AACCACCC A UAUAAGAA	3004	GUUCUAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGGUGU	18312
8592	UAUAAGAA C UGGAACUA	3005	UAGUUAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUAUA	18313
8593	AUAGAACC U GGAACUAU	3006	AUAGUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUCUAU	18314
8599	CCUGGAAC U AUCACGGC	3007	GCCGUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCCAGG	18315
8603	GAACUAUC A CGGCAGUU	3008	AACUGCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAGUUC	18316
8608	AUCACGGC A GUUAUGAU	3009	AUCAUAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGUGAU	18317
8624	UGUGAAGC C CACAGGCU	3010	AGCCUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUCACA	18318
8625	GUGAAGCC C ACAGGCUC	3011	GAGCCUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUUCAC	18319
8626	UGAAGCCC A CAGGCUC	3012	GGAGCCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCUUCA	18320
8628	AAGCCCAC A GGCUCGC	3013	CGCGAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGGCUU	18321
8632	CCACAGGC U CCGCCAGU	3014	ACUGCGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUGUGG	18322
8634	ACAGGCUC C GCCAGUUC	3015	GAACUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCUGU	18323
8637	GGCUCGCG C AGUUCGCU	3016	AGCGAAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGAGCC	18324
8638	GCUCGCGC A GUUCGUG	3017	CAGCGAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGAGC	18325
8645	CAGUUCGC U GGUCAAUG	3018	CAUUGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAACUG	18326
8650	CGCUGGUC A AUGGAGUG	3019	CACUCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCAGCG	18327
8662	GAGUGGUC A GGCUCUC	3020	GAGGAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCACUC	18328
8666	GGUCAGGC U CCUCUCAA	3021	UUGAGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUGACC	18329
8668	UCAGGCUC C UCUCAAAA	3022	UUUUGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCUGA	18330
8669	CAGGCUCU U CUCAAAAC	3023	GUUUUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCUG	18331
8671	GGCUCUCU U CAAAACCA	3024	UGGUUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAGCC	18332
8673	CUCCUCUC A AAACCAUG	3025	CAUGGUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGGAG	18333
8678	CUCAAAAC C AUGGGACA	3026	UGUCCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUUGAG	18334
8679	UCAAAACC A UGGGACAC	3027	GUGUCCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUUUGA	18335
8686	CAUGGGAC A CCAUCACG	3028	CGUGAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCCAUG	18336
8688	UGGGACAC C AUCAGGAA	3029	UUCGUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUCCCA	18337
8689	GGGACACC A UCACGA AU	3030	AUUCGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUCC	18338
8692	ACACCAUC A CGAAUGUU	3031	AACAUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGGUG	18339
8703	AAUGUUAC C ACCAUGGC	3032	GCCAUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAACAUU	18340
8704	AUGUUACC A CCAUGGCC	3033	GGCCAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUAACAU	18341
8706	GUUACCAC C AUGGCCAU	3034	AUGGCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUUAC	18342
8707	UUACCACC A UGGCCAUG	3035	CAUGGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGGUAA	18343
8712	ACCAUGGC C AUGACUGA	3036	UCAGUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAUGGU	18344
8713	CCAUGGCC A UGACUGAC	3037	GUCAGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCAUGG	18345
8718	GCCAUGAC U GACACUAC	3038	GUAGUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAUGGC	18346
8722	UGACUGAC A CUACUCCC	3039	GGGAGUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAGUCA	18347
8724	ACUGACAC U ACUCCCUU	3040	AAGGGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUCAGU	18348
8727	GACACUAC U CCCUUCGG	3041	CCGAAGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAGUGUC	18349
8729	CACUACUC C CUUCGGGC	3042	GCCCAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUAGUG	18350
8730	ACUACUCC C UUCGGGCA	3043	UGCCCAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGUAGU	18351
8731	CUACUCCC U UCGGGCAG	3044	CUGCCCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAGUAG	18352
8738	CUUCGGGC A GCAGCGAG	3045	CUCGCGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCCGAAG	18353
8741	CGGGCAGC A GCGAGUGU	3046	ACACUCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGCCCG	18354
8752	GAGUGUUC A AAGAGAAG	3047	CUUCUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAACUC	18355

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8767	AGGUGGAC A CGAAAGCU	3048	AGCUUUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCACCU	18356
8775	ACGAAAGC U CCUGAACC	3049	GGUUCAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUUCGU	18357
8777	GAAAGCUC C UGAACCGC	3050	GCGGUUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCUUUC	18358
8778	AAAGCUCC U GAACCGCC	3051	GGCGGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGCUUU	18359
8783	UCCUGAAC C GCCAGAAG	3052	CUUCUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCAGGA	18360
8786	UGAACCGC C AGAAGGAG	3053	CUCCUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGUUCA	18361
8787	GAACCGCC A GAAGGAGU	3054	ACUCCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUGUUC	18362
8807	GUACGUGC U CAAUGAGA	3055	UCUCAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACGUAC	18363
8809	ACGUGCUC A AUGAGACC	3056	GGUCUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCACGU	18364
8817	AAUGAGAC C ACCAACUG	3057	CAGUUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUCAUU	18365
8818	AUGAGACC A CCAACUGG	3058	CCAGUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCUCAU	18366
8820	GAGACCAC C AACUGGUU	3059	AACCAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUCUC	18367
8821	AGACCACC A ACUGGUUG	3060	CAACCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGGUCU	18368
8824	CCACCAAC U GGUUGUGG	3061	CCACAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGUGG	18369
8844	UUUUUGGC C AGAGAAAA	3062	UUUUCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAAAAA	18370
8845	UUUUGGCC A GAGAAAAA	3063	UUUUUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCAAAA	18371
8858	AAAACGUC C CAGAAUGU	3064	ACAUUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGUUUU	18372
8859	AAACGUGC C AGAAUGUG	3065	CACAUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACGUUU	18373
8860	AACGUCCC A GAAUGUGC	3066	GCACAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGACGUU	18374
8869	GAAUGUGC U CUCGAGAG	3067	CUCUCGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACAUUC	18375
8871	AUGUGCUC U CGAGAGGA	3068	UCCUCUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCACAU	18376
8884	AGGAUUC A UAAGAAAG	3069	CUUUCUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUUCU	18377
8896	GAAAGGUC A ACAGCAAU	3070	AUUGCUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCUUUC	18378
8899	AGGUC AAC A GCAAUGCA	3071	UGCAUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGACCU	18379
8902	UCAACAGC A AUGCAGCU	3072	AGCUGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGUUGA	18380
8907	AGCAAUGC A GCUUUGGG	3073	CCCAAAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUUGCU	18381
8910	AAUGCAGC U UUGGGUGC	3074	GCACCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGCAUU	18382
8919	UUGGGUGC C AUGUUUGA	3075	UCAAAACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACCCAA	18383
8920	UGGGUGCC A UGUUUGAA	3076	UUCAAACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCACCCA	18384
8933	UGAAGAGC A GAAUCAAU	3077	AUUGAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUUCA	18385
8939	GCAGAAUC A AUGGAGGA	3078	UCCUCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCUGC	18386
8952	AGGAGCGC C AGAGAAGC	3079	GCUCUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGCUCUC	18387
8953	GGAGCGCC A GAGAAGCA	3080	UGUUCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGCUCUC	18388
8961	AGAGAAGC A GUUGAAGA	3081	UCUUCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUCUCU	18389
8972	UGAAGAUC C AAAAUUUU	3082	AAAAUUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCUCA	18390
8973	GAAGAUC A AAAUUUUG	3083	CAAAUUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUCUUC	18391
9009	CGCGAGGC A CAUCUGCG	3084	CGCAGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUCGCG	18392
9011	CGAGGCAC A UCUGCGGG	3085	CCCGCAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCCUCG	18393
9014	GGCACAUC U GCGGGGGG	3086	CCCCCCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGGCC	18394
9029	GGAAUGUC A CACUUGCA	3087	UGCAAGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAUCC	18395
9031	AAUGUCAC A CUUGCAUU	3088	AAUGCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGACAUU	18396
9033	UGUCACAC U UGCAUUUA	3089	UAAAUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUGACA	18397
9037	ACACUUGC A UUUACAAC	3090	GUUGUAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAGUGU	18398
9043	GCAUUUAC A ACAUGAUG	3091	CAUCAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAAAUGC	18399
9046	UUUACAAC A UGAUGGGA	3092	UCCCAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGUAAA	18400
9071	GAAAAAAC C CGGAGAGU	3093	ACUCUCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUUUUU	18401
9072	AAAAAAC C GGAGAGUU	3094	AACUCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUUUUU	18402
9090	GGAAAGGC C AAGGGAAG	3095	CUUCCCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUUUCC	18403
9091	GAAAGGCC A AGGGAAGC	3096	GCUUCCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCUUUC	18404
9100	AGGGAAGC A GAGCCAUU	3097	AAUGGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUCCCU	18405
9105	AGCAGAGC C AUUUGGUU	3098	AACCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUGCU	18406
9106	GCAGAGCC A UUUGGUUC	3099	GAACCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUCUGC	18407
9115	UUUGGUUC A UGUGGCUC	3100	GAGCCACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACCAA	18408
9122	CAUGUGGC U CGGAGCUC	3101	GAGCUCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCACAUG	18409
9129	CUCGGAGC U CGCUUUCU	3102	AGAAAGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCCGAG	18410
9133	GAGCUCGC U UUCUGGAG	3103	CUCCAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAGCUC	18411
9137	UGCUUUC U GGAGUUCG	3104	CGAAAUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGCGA	18412
9150	UUCGAGGC U CUGGGUUU	3105	AAACCCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUCGAA	18413
9152	CGAGGCUC U GGGUUUUC	3106	GAAAACCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCUCG	18414
9161	GGGUUUUC U CAAUGAAG	3107	CUUCAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAACCC	18415
9163	GUUUUCUC A AUGAAGAC	3108	GUCUUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAAAAC	18416

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9172	AUGAAGAC C ACUGGCUU	3109	AAGCCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUUCAU	18417
9173	UGAAGACC A CUGGCUUG	3110	CAAGCCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCUUCA	18418
9175	AAGACCAC U GGCUGGA	3111	UCCAAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUCUU	18419
9179	CCACUGGC U UGGAAGAA	3112	UUCUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAGUGG	18420
9193	GAAAGAAC U CAGGAGGA	3113	UCCUCCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUUUC	18421
9195	AAGAACUC A GGAGGAGG	3114	CCUCCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUUCU	18422
9214	UCGAGGGC U UGGGCCUC	3115	GAGGCCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUCGA	18423
9220	GCUGGGGC C UCCAAAAA	3116	UUUUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCCAAGC	18424
9221	CUUGGGCC U CCAAAAC	3117	GUUUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCCAAG	18425
9223	UGGGCCUC C AAAACUG	3118	CAGUUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGCCCA	18426
9224	GGGCCUCC A AAAACUGG	3119	CCAGUUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGGCC	18427
9230	CCAAAAAC U GGGUACA	3120	UGUAACCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUUUGG	18428
9238	UGGGUUAC A UCCUGCGU	3121	ACGCAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAACCA	18429
9241	GUUACAUC C UGCGUGAA	3122	UUCACGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGAAC	18430
9242	UUACAUC U GCGUGAAG	3123	CUUACGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUUA	18431
9256	AAGUUGC A CCCGGCCU	3124	AGGCCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAACUU	18432
9258	GUUGGCAC C CGGCCUGG	3125	CCAGGCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCCAAC	18433
9259	UUGGCACC C GGCCUGGG	3126	CCCAGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGCCAA	18434
9263	CACCCGGC C UGGGGGCA	3127	UGCCCCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGGGUG	18435
9264	ACCCGGCC U GGGGGCAA	3128	UUGCCCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCGGGU	18436
9271	CUGGGGAC A AGAUCUUA	3129	AUAGAUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCCCAG	18437
9277	GCAAGAUC U AUGCUGAU	3130	AUCAGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCUG	18438
9282	AUCUAUC U GAUGACAC	3131	GUGUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUGAU	18439
9289	CUGAUGC A CAGCUGGC	3132	GCCAGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAUCAG	18440
9291	GAUGACAC A GCUGGCUG	3133	CAGCCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUCAUC	18441
9294	GACACAGC U GGCUGGGA	3134	UCCCAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGUGUC	18442
9298	CAGCUGGC U GGGACACC	3135	GGUGUCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAGCUG	18443
9304	GCUGGGAC A CCCGCAUC	3136	GAUGC GG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCCAGC	18444
9306	UGGGACAC C CGCAUCAC	3137	GUGAUGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUCCCA	18445
9307	GGGACACC C GCAUCACG	3138	CGUGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUCCC	18446
9310	ACACCCGC A UCACGAGA	3139	UCUCUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGUGU	18447
9313	CCCGCAUC A CGAGAGCU	3140	AGCUCUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCCGGG	18448
9321	ACGAGAGC U GACUUGGA	3141	UCCAAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUCGU	18449
9325	GAGCUGAC U UGGAAAAU	3142	AUUUUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAGCUC	18450
9339	AAUGAAGC U AAGGUGCU	3143	AGCACCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUCAU	18451
9347	UAAGGUGC U UGAGCUGC	3144	GCAGCUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACCUUA	18452
9353	GCUUGAGC U GCUUGAUG	3145	CAUCAAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCAAGC	18453
9356	UGAGCUGC U UGAUGGGG	3146	CCCAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGCUCA	18454
9368	UGGGGAAC A UCGGCUGC	3147	GAGCCCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCCCA	18455
9377	UCGGCUGC U UGCCAGGG	3148	CCUGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGCCGA	18456
9381	CGUCUUGC C AGGGCCAU	3149	AUGGCCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAGACG	18457
9382	GUCUUGCC A GGGCCAUC	3150	GAUGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAAGAC	18458
9387	GCCAGGCC C AUCAUUGA	3151	UCAUUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUGGC	18459
9388	CCAGGGCC A UCAUUGAG	3152	CUCAAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCUGG	18460
9391	GGGCCAUC A UUGAGCUC	3153	GAGCUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGGCC	18461
9398	CAUUGAGC U CACCUAUC	3154	GAUAGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCAUG	18462
9400	UUGAGCUC A CCUAUCGU	3155	ACGAUAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCUCAA	18463
9402	GAGCUCAC C UAUCGUCA	3156	UGACGAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAGCUC	18464
9403	AGCUCACC U AUCGUCAC	3157	GUGACGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGAGCU	18465
9410	CUAUCGUC A CAAAGUUG	3158	CAACUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGAUAG	18466
9412	AUCGUCAC A AAGUUGUG	3159	CACAACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGACGAU	18467
9433	UGAUGCGC C CGGUGCU	3160	AGCAGCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGCAUCA	18468
9434	GAUGCGCC C GGCUGCUG	3161	CAGCAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGCAUC	18469
9438	CGCCCGCC U GCUAUGGG	3162	CCAUCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGGGCG	18470
9441	CCGGCUGC U GAUGGAAG	3163	CUUCCAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGCCGG	18471
9453	GGAAGAAC C GUCAUGGA	3164	UCCAUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUUC	18472
9457	GAACCGUC A UGGAUGUU	3165	AACAUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGGUUC	18473
9469	AUGUUAUC U CCAGAGAA	3166	UUCUCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAAU	18474
9471	GUUAUCUC C AGAGAAGA	3167	UCUCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAUUAC	18475
9472	UUUAUCUC A GAGAAGAU	3168	AUCUUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGAUA	18476
9482	AGAAGAUC A GAGGGGA	3169	UCCCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCUU	18477

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9497	GAGUGGAC A AGUUGUCA	3170	UGACAACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCACUC	18478
9505	AAGUUGUC A CCUACGCC	3171	GGCGUAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAACUU	18479
9507	GUUGUCAC C UACGCCCU	3172	AGGGCGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGACAAC	18480
9508	UUGUCACC U ACGCCCUA	3173	UAGGGCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGACAA	18481
9513	ACCUACGC C CUAACAC	3174	GUGUUUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUAGGU	18482
9514	CCUACGCC C UAAACACU	3175	AGUGUUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUAGG	18483
9515	CUACGCC U AAACACUU	3176	AAGUGUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCGUAG	18484
9520	CCCUAAAC A CUUUCACC	3177	GGUGAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUAGGG	18485
9522	CUAAACAC U UUCACCAA	3178	UUGGUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUUUAG	18486
9526	ACACUUUC A CCAACCUG	3179	CAGGUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGUGU	18487
9528	ACUUUCAC C AACCUGGC	3180	GCCAGGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAAAGU	18488
9529	CUUUCACC A ACCUGGCC	3181	GGCCAGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGAAAG	18489
9532	UCACCAAC C UGGCCGUC	3182	GACGGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGUGA	18490
9533	CACCAACC U GGCCGUCC	3183	GGACGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUGGUG	18491
9537	AACCUGGC C GUCCAGCU	3184	AGCUGGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAGGUU	18492
9541	UGGCCGUC C AGCUGGUG	3185	CACCAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGGCCA	18493
9542	GGCCGUCC A GCUGGUGA	3186	UCACCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACGGCC	18494
9545	CGUCCAGC U GGUGAGGA	3187	UCCUCACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGGACG	18495
9580	UGAUUGGC C CAGAUGAU	3188	AUCAUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAAUCA	18496
9581	GAUUGGCC C AGAUGAUG	3189	CAUCAUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCAAUC	18497
9582	AUUGGCC A GAUGAUGU	3190	ACAUCAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCCAAU	18498
9599	GGAGAAAC U CACAAAG	3191	CUUUUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUUCUC	18499
9601	AGAAACUC A CAAAAGGG	3192	CCCUUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUUUCU	18500
9603	AAACUCAC A AAAGGGAA	3193	UUCUUUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAGUUU	18501
9617	GAAAGGAC C CAAAGUCA	3194	UGACUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCUUUC	18502
9618	AAAGGACC C AAAGUCAG	3195	CUGACUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCCUUU	18503
9619	AAGGACCC A AAGUCAGG	3196	CCUGACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUCCUU	18504
9625	CCAAGUC A GGACCUGG	3197	CCAGGUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUUUGG	18505
9630	GUCAGGAC C UGGCUGUU	3198	AACAGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCUGAC	18506
9631	UCAGGACC U GGCUGUUU	3199	AAACAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCCUGA	18507
9635	GACCUGGC U GUUUGAGA	3200	UCUCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAGGUC	18508
9659	AGAAAGC A CAGCCGA	3201	UGCGGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUUUCU	18509
9661	AAAGACUC A GCCGCAUG	3202	CAUGCGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUCUUU	18510
9664	GACTUCAGC C GCAUGGCU	3203	AGCCAUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGAGUC	18511
9667	UCAGCCGC A UGGCUGUC	3204	GACAGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGCUGA	18512
9672	CGCAUGGC U GUCAGUGG	3205	CCACUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAUGCG	18513
9676	UGGCUGUC A GUGGAGAU	3206	AUCUCCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAGCCA	18514
9688	GAGAUGAC U GUGUGGUA	3207	UACCACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAUCUC	18515
9701	GGUAAAGC C CCUGGACG	3208	CGUCCAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUUAAC	18516
9702	GUAAAGCC C CUGGACGA	3209	UCGUCGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUUUAC	18517
9703	UAAAGCCC C UGGACGAU	3210	AUCGUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCUUUA	18518
9704	AAAGCCCC U GGACGAUC	3211	GAUCGUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGCUUU	18519
9715	ACGAUCGC U UUGCCACC	3212	GGUGGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAUCGU	18520
9720	CGCUUUGC C ACCUCGCU	3213	AGCGAGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAAGCG	18521
9721	GCUUUGCC A CCUCGCUC	3214	GAGCGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAAAGC	18522
9723	UUUGCCAC C UCGUCCA	3215	UGGAGCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCAAA	18523
9724	UUGCCACC U CGCUCCAC	3216	GUGGAGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGGCAA	18524
9728	CACCUCCG U CCACUCC	3217	GGAAGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAGGUG	18525
9730	CCUCGCUC C ACUCCUC	3218	GAGGAAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCGAGG	18526
9731	CUCGCUC A CUUCCUCA	3219	UGAGGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGCGAG	18527
9733	CGCUCCAC U UCCUCAU	3220	AUUGAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAGCG	18528
9736	UCCACUUC C UCAAUGCU	3221	AGCAUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUGUGA	18529
9737	CCACUUC U CAAUGCUA	3222	UAGCAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGUGG	18530
9739	ACUUCUC A AUGCUAUG	3223	CAUAGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAAGU	18531
9744	CUCAAUGC U AUGUCAA	3224	UUUGACAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUUGAG	18532
9750	GCUAUGUC A AAGGUUCG	3225	CGAACCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAUAGC	18533
9760	AGGUUCGC A AAGACAUC	3226	GAUGUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAACCU	18534
9766	GCAAAGAC A UCCAAGAG	3227	CUCUUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUUUGC	18535
9769	AAGACAUC C AAGAGUGG	3228	CCACUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCUUU	18536
9770	AGACAUC A AGAGUGGA	3229	UCCACUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUGUCU	18537
9782	GUGGAAAC C GUCAACUG	3230	CAGUUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUCCAC	18538

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9786	AAACCGUC A ACUGGAUG	3231	CAUCCAGU CUGAUGAG	GCCGUUAGGC	CGAA IACGGUUU	18539
9789	CCGUCAAC U GGAUGGUA	3232	UACCAUCC CUGAUGAG	GCCGUUAGGC	CGAA IUUGACGG	18540
9806	UGAUUGGC A GCAGGUUC	3233	GAACCUGC CUGAUGAG	GCCGUUAGGC	CGAA ICCAAUCA	18541
9809	UUGGCAGC A GGUUCCA	3234	AUGGAACC CUGAUGAG	GCCGUUAGGC	CGAA ICUGCCAA	18542
9815	GCAGGUUC C AUUUUGCU	3235	AGCAAAAU CUGAUGAG	GCCGUUAGGC	CGAA IAACCUGC	18543
9816	CAGGUUCC A UUUUGCUC	3236	GAGCAAAA CUGAUGAG	GCCGUUAGGC	CGAA IGAAACUG	18544
9823	CAUUUUGC U CAAACCAU	3237	AUGGUUUG CUGAUGAG	GCCGUUAGGC	CGAA ICAAAAUG	18545
9825	UUUUGCUC A AACCAUUU	3238	AAAUUGUU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAAAA	18546
9829	GCUCAAAC C AUUUCACU	3239	AGUGAAAU CUGAUGAG	GCCGUUAGGC	CGAA IUUUGAGC	18547
9830	CUCAAACC A UUUCACUG	3240	CAGUGAAA CUGAUGAG	GCCGUUAGGC	CGAA IGUUUGAG	18548
9835	ACCAUUUC A CUGAAUUG	3241	CAAUUCAG CUGAUGAG	GCCGUUAGGC	CGAA IAAAUUGU	18549
9837	CAUUUCAC U GAAUUGAU	3242	AUCAAUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGAAAUG	18550
9847	AAUUGAUC A UGAAAGAU	3243	AUCUUUCA CUGAUGAG	GCCGUUAGGC	CGAA IAUCAAUU	18551
9864	GGAAGAAC A CUGGUGGU	3244	ACCACCAG CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUCU	18552
9866	AAGAACAC U GGUGGUUC	3245	GAACCACC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUCUU	18553
9875	GGUGGUUC C AUGCCGAG	3246	CUCGGCAU CUGAUGAG	GCCGUUAGGC	CGAA IAACCACC	18554
9876	GUGGUUCC A UGCCGAGG	3247	CCUCGGCA CUGAUGAG	GCCGUUAGGC	CGAA IGAACCAC	18555
9880	UUCCAUGC C GAGGACAG	3248	CUGUCCUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUGGAA	18556
9887	CCGAGGAC A GGAUGAAU	3249	AUUCAUCC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCGG	18557
9904	UGGUAGGC A GAGCUCGC	3250	GCGAGCUC CUGAUGAG	GCCGUUAGGC	CGAA ICCUACCA	18558
9909	GGCAGAGC U CGCAUAUC	3251	GAUAUGCG CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGCC	18559
9913	GAGCUCGC A UAUUCUCA	3252	UGGAGAAU CUGAUGAG	GCCGUUAGGC	CGAA ICGAGCUC	18560
9918	CGCAUAUC U CCAGGGGC	3253	GCCCCUGG CUGAUGAG	GCCGUUAGGC	CGAA IAUAGCG	18561
9920	CAUAUCUC C AGGGGCCG	3254	CGGCCCCU CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUUG	18562
9921	AUAUCUCC A GGGGCCGG	3255	CCGGCCCC CUGAUGAG	GCCGUUAGGC	CGAA IGAGAUAU	18563
9927	CCAGGGGC C GGAUGGAA	3256	UUCCAUCC CUGAUGAG	GCCGUUAGGC	CGAA ICCCCUGG	18564
9940	GGAACGUC C GCGACACU	3257	AGUGUCGC CUGAUGAG	GCCGUUAGGC	CGAA IACGUUCC	18565
9946	UCCGCGAC A CUGCUUGU	3258	ACAAGCAG CUGAUGAG	GCCGUUAGGC	CGAA IUCGCGGA	18566
9948	CGCGACAC U GCUUGUCU	3259	AGACAAGC CUGAUGAG	GCCGUUAGGC	CGAA IUGUCGCG	18567
9951	GACACUGC U UGUUGGCC	3260	GCCAGACA CUGAUGAG	GCCGUUAGGC	CGAA ICAGUGUC	18568
9956	UGCUUGUC U GGCUAAGU	3261	ACUUGACC CUGAUGAG	GCCGUUAGGC	CGAA IACAAGCA	18569
9960	UGUCUGGC U AAGUCUUA	3262	UAAGACUU CUGAUGAG	GCCGUUAGGC	CGAA ICCAGACA	18570
9966	GCUAAGUC U UAUGCCCA	3263	UGGGCAUA CUGAUGAG	GCCGUUAGGC	CGAA IACUUAGC	18571
9972	UCUUAUGC C CAGAUGUG	3264	CACAUCUG CUGAUGAG	GCCGUUAGGC	CGAA ICAUAAGA	18572
9973	CUUAUGCC C AGAUGUGG	3265	CCACAUCU CUGAUGAG	GCCGUUAGGC	CGAA IGCAUAAG	18573
9974	UUAUGCCC A GAUGUGGC	3266	GCCACAUC CUGAUGAG	GCCGUUAGGC	CGAA IGGCAUAA	18574
9983	GAUGUGGC U GCUUCUGU	3267	ACAGAAGC CUGAUGAG	GCCGUUAGGC	CGAA ICCACAUC	18575
9986	GUGGCUGC U UCUGUACU	3268	AGUACAGA CUGAUGAG	GCCGUUAGGC	CGAA ICAGCCAC	18576
9989	GCUGCUUC U GUACUUCU	3269	GGAAGUAC CUGAUGAG	GCCGUUAGGC	CGAA IAAGCAGC	18577
9994	UUCUGUAC U UCCACAGA	3270	UCUGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUACAGAA	18578
9997	UGUACUUC C ACAGAAGA	3271	UCUUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IAAGUACA	18579
9998	GUACUUCU A CAGAAGAG	3272	CUCUUCUG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGUAC	18580
10000	ACUUCAC A GAAAGAGC	3273	GUCUCUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGAAGU	18581
10009	GAAGAGAC C UGCGGCUC	3274	GAGCCGCA CUGAUGAG	GCCGUUAGGC	CGAA IUCUCUUC	18582
10010	AAGAGACC U GCGGCUCA	3275	UGAGCCGC CUGAUGAG	GCCGUUAGGC	CGAA IGUCUCUU	18583
10016	CCUGCGGC U CAUGGCCA	3276	UGGCCAUG CUGAUGAG	GCCGUUAGGC	CGAA ICCGACGG	18584
10018	UGCGGCUC A UGGCCAAC	3277	GUUGGCCA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCGCA	18585
10023	CUCAUGGC C AACGCCAU	3278	AUGGCGUU CUGAUGAG	GCCGUUAGGC	CGAA ICCAUGAG	18586
10024	UCAUGGCC A ACGCCAUI	3279	AAUGGCGU CUGAUGAG	GCCGUUAGGC	CGAA IGCCAUGA	18587
10029	GCCAACGC C AUUUGCUC	3280	GAGCAAAU CUGAUGAG	GCCGUUAGGC	CGAA ICGUUGGC	18588
10030	CCAACGCC A UUUGCUCC	3281	GGAGCAAA CUGAUGAG	GCCGUUAGGC	CGAA IGCGUUGG	18589
10036	CAAUUUGC U CCGCUGUC	3282	GACAGCGG CUGAUGAG	GCCGUUAGGC	CGAA ICAAAUGG	18590
10038	AUUUGCUC C GCUGUCCC	3283	GGGACAGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCAAAU	18591
10041	UGCUCGCG U GUCCUGU	3284	ACAGGGAC CUGAUGAG	GCCGUUAGGC	CGAA ICGGAGCA	18592
10045	CCGCUGUC C CUGUGAAU	3285	AUUCACAG CUGAUGAG	GCCGUUAGGC	CGAA IACGCGG	18593
10046	CGCUGUCC C UGUGAAUU	3286	AAUUCACA CUGAUGAG	GCCGUUAGGC	CGAA IGACAGCG	18594
10047	GCUGUCCC U GUGAAUUG	3287	CAAUUCAC CUGAUGAG	GCCGUUAGGC	CGAA IGGACAGC	18595
10060	AUUGGGUC C CUACCGGA	3288	UCCGGUAG CUGAUGAG	GCCGUUAGGC	CGAA IACCCAAU	18596
10061	UUGGGUCC C UACCGGAA	3289	UUCCGGUA CUGAUGAG	GCCGUUAGGC	CGAA IGACCCAA	18597
10062	UGGGUCCC U ACCGGAAG	3290	CUUCCGGU CUGAUGAG	GCCGUUAGGC	CGAA IGGACCCA	18598
10065	GUCCCUAC C GGAAGAAC	3291	GUUCUUCU CUGAUGAG	GCCGUUAGGC	CGAA IUAGGGAC	18599

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10074	GGAAGAAC C ACGUGGUC	3292	GACCACGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUC	18600
10075	GAAGAACC A CGUGGUCC	3293	GGACCACG CUGAUGAG	GCCGUUAGGC	CGAA IGUUCUUC	18601
10083	ACGUGGUC C AUCCAUGC	3294	GCAUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IACCACGU	18602
10084	CGUGGUCC A UCCAUGCA	3295	UGCAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGACCACG	18603
10087	GUCCAUC C AUGCAGGA	3296	UCCUGCAU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGACC	18604
10088	GUCCAUC C AUGCAGGA	3297	CUCUGCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGAC	18605
10092	AUCCAUGC A GGAGGAGA	3298	UCUCCUCC CUGAUGAG	GCCGUUAGGC	CGAA ICAUGGAU	18606
10110	UGGAUGAC A ACAGAGGA	3299	UCCUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IUCAUCCA	18607
10113	AUGACAAC A GAGGACAU	3300	AUGUCCUC CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCAU	18608
10120	CAGAGGAC A UGUUGGAG	3301	CUCCAACA CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCUG	18609
10132	UGGAGGUC U GGAACCGU	3302	ACGGUUCC CUGAUGAG	GCCGUUAGGC	CGAA IACCUCCA	18610
10138	UCUGGAAC C GUGUUUGG	3303	CCAAACAC CUGAUGAG	GCCGUUAGGC	CGAA IUUCCAGA	18611
10174	UGGAAGAC A AAACCCCA	3304	UGGGGUUU CUGAUGAG	GCCGUUAGGC	CGAA IUCUCCA	18612
10179	GACAAAAC C CCAGUGGA	3305	UCCACUGG CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGUC	18613
10180	ACAAAACC C CAGUGGAG	3306	CUCCACUG CUGAUGAG	GCCGUUAGGC	CGAA IGUUUUUG	18614
10181	CAAAACCC C AGUGGAGA	3307	UCUCCACU CUGAUGAG	GCCGUUAGGC	CGAA IGGUUUUU	18615
10182	AAAACCCC C AGUGGAGA	3308	UUCUCCAC CUGAUGAG	GCCGUUAGGC	CGAA IGGUUUUU	18616
10204	GUGACGUC C CAUAUUA	3309	UGAAUAUG CUGAUGAG	GCCGUUAGGC	CGAA IACGUCAC	18617
10205	UGACGUCC C AUAUUCAG	3310	CUGAAUAU CUGAUGAG	GCCGUUAGGC	CGAA IGACGUCA	18618
10206	GACGUCCC A UAUUCAGG	3311	CCUGAAUA CUGAUGAG	GCCGUUAGGC	CGAA IGGACGUC	18619
10212	CCAUAUUC A GGAACACG	3312	CGUUUUCC CUGAUGAG	GCCGUUAGGC	CGAA IAAUAUGG	18620
10228	GAGAGGAC A UCUGGUGU	3313	ACACCAGA CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCUC	18621
10231	AGGACAUC U GGUGUGGC	3314	GCCACACC CUGAUGAG	GCCGUUAGGC	CGAA IAUGUCCU	18622
10240	GGUGUGGC A GCCUGAUU	3315	AAUCAGGC CUGAUGAG	GCCGUUAGGC	CGAA ICCACACC	18623
10243	GUGGCAGC C UGAUUGGC	3316	GCCAAUCA CUGAUGAG	GCCGUUAGGC	CGAA ICUGCCAC	18624
10244	UGGCAGCC U GAUUGGCA	3317	UGCCAAUC CUGAUGAG	GCCGUUAGGC	CGAA IGCUGCCA	18625
10252	UGAUUGGC A CAAGAGCC	3318	GGCUCUUG CUGAUGAG	GCCGUUAGGC	CGAA ICCAAUCA	18626
10254	AUUGGCAC A AGAGCCCG	3319	CGGCUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUGCCAAU	18627
10260	ACAAGAGC C CGAGCCAC	3320	GUGGCUCG CUGAUGAG	GCCGUUAGGC	CGAA ICUCUUGU	18628
10261	CAAGAGCC C GAGCCACG	3321	CGUGGCUC CUGAUGAG	GCCGUUAGGC	CGAA IGCUCUUG	18629
10266	GCCCGAGC C ACGUGGGC	3322	GCCACAGU CUGAUGAG	GCCGUUAGGC	CGAA ICUCGGGC	18630
10267	CCCGAGCC A CGUGGGCA	3323	UGCCACAG CUGAUGAG	GCCGUUAGGC	CGAA IGCUCGGG	18631
10275	ACGUGGGC A GAAACAU	3324	AUGUUUUC CUGAUGAG	GCCGUUAGGC	CGAA ICCACGU	18632
10282	CAGAAAAC A UCCAGGUG	3325	CACCUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUUUUCUG	18633
10285	AAAACAUC C AGGUGGCU	3326	AGCCACCU CUGAUGAG	GCCGUUAGGC	CGAA IAUGUUUU	18634
10286	AAACAUC C AGGUGGCU	3327	UAGCCACC CUGAUGAG	GCCGUUAGGC	CGAA IGAUGUUU	18635
10293	CAGGUGGC U AUCAACCA	3328	UGGUUGAU CUGAUGAG	GCCGUUAGGC	CGAA ICCACUUG	18636
10297	UGGCUAUC A ACCAAGUC	3329	GACUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGCCA	18637
10300	CUAUAAC C AAGUCAGA	3330	UCUGACUU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUAG	18638
10301	UAUAAC C AGUCAGAG	3331	CUCUGACU CUGAUGAG	GCCGUUAGGC	CGAA IGUUGAUA	18639
10306	ACCAAGUC A GAGCAAUC	3332	GAUUGCUC CUGAUGAG	GCCGUUAGGC	CGAA IACUUGGU	18640
10311	GUCAGAGC A AUCAUCGG	3333	CCGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGAC	18641
10315	GAGCAAUC A UCGGAGAU	3334	AUCUCCGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGCUC	18642
10342	UGGAUUAC A UAGAUUCA	3335	UGAACUCA CUGAUGAG	GCCGUUAGGC	CGAA IUAAUCCA	18643
10350	AUGAGUUC A CUAAGAG	3336	CUCUUUAG CUGAUGAG	GCCGUUAGGC	CGAA IAACUCAU	18644
10352	GAGUUCAC U AAAGAGAU	3337	AUCUCUUU CUGAUGAG	GCCGUUAGGC	CGAA IUGAACUC	18645
10369	AUGAAGAC A CAACUUUG	3338	CAAAGUUG CUGAUGAG	GCCGUUAGGC	CGAA IUCUUCAU	18646
10371	GAAGACAC A ACUUUGGU	3339	ACCAAAGU CUGAUGAG	GCCGUUAGGC	CGAA IUGUCUUC	18647
10374	GACACAAC U UUGGUUGA	3340	UCAACCAA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGUC	18648
10387	UUGAGGAC A CAGUACUG	3341	CAGUACUG CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCAA	18649
10389	GAGGACAC A GUACUGUA	3342	UACAGUAC CUGAUGAG	GCCGUUAGGC	CGAA IUGUCCUC	18650
10394	CACAGUAC U GUAGUAU	3343	AUAUCUAC CUGAUGAG	GCCGUUAGGC	CGAA IUACUGUG	18651
10409	AUUUAAUC A AUUGUAAA	3344	UUUACAAU CUGAUGAG	GCCGUUAGGC	CGAA IAUUAAAU	18652
10423	AAAUAGAC A AUUAAGU	3345	ACUUUAU CUGAUGAG	GCCGUUAGGC	CGAA IUCUAUUU	18653
10436	AAGUAUGC A UAAAAGUG	3346	ACUUUUUA CUGAUGAG	GCCGUUAGGC	CGAA ICAUACUU	18654
10509	AGAAAGUC A GCGCGGA	3347	UCCCGGCC CUGAUGAG	GCCGUUAGGC	CGAA IACUUCU	18655
10513	AGUCAGGC C GGAAGUU	3348	AACUUCUCC CUGAUGAG	GCCGUUAGGC	CGAA ICCUGACU	18656
10523	GGAAGUUC C GCGACCG	3349	CGGUGGCG CUGAUGAG	GCCGUUAGGC	CGAA IAACUUC	18657
10524	GAAGUUC C GCGACCG	3350	CGGUGGCG CUGAUGAG	GCCGUUAGGC	CGAA IGAACUUC	18658
10527	GUUCCCGC C ACCGGAAG	3351	CUUCCGGU CUGAUGAG	GCCGUUAGGC	CGAA ICGGAAC	18659
10528	UUCCCGCC A CCGGAAGU	3352	ACUCCGGU CUGAUGAG	GCCGUUAGGC	CGAA ICGGGAA	18660

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10530	CCC GCCAC C GGAAGUUG	3353	CAACUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGCGGG	18661
10551	GACGGUGC U GCCUGCGA	3354	UCG CAGGC CUGAUGAG	GCCGUUAGGC	CGAA ICACCGUC	18662
10554	GGUGCUGC C UGCGACUC	3355	GAGUCGCA CUGAUGAG	GCCGUUAGGC	CGAA ICAGCACC	18663
10555	GUGCUGCC U GCGACUCA	3356	UGAGUCGC CUGAUGAG	GCCGUUAGGC	CGAA IGCAGCAC	18664
10561	CCUGCGAC U CAACCCCA	3357	UGGGGUUG CUGAUGAG	GCCGUUAGGC	CGAA IUCGCAGG	18665
10563	UGCGACUC A ACCCCAGG	3358	CCUGGGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGUCGCA	18666
10566	GACUCAAC C CCAGGAGG	3359	CCUCCUGG CUGAUGAG	GCCGUUAGGC	CGAA IUUGAGUC	18667
10567	ACUCAACC C CAGGAGGA	3360	UCCUCCUG CUGAUGAG	GCCGUUAGGC	CGAA IGUUGAGU	18668
10568	CUCAACCC C AGGAGGAC	3361	GUCCUCCU CUGAUGAG	GCCGUUAGGC	CGAA IGGUUGAG	18669
10569	UCAACCCC A GGAGGACU	3362	AGUCCUCC CUGAUGAG	GCCGUUAGGC	CGAA IGGGUUGA	18670
10577	AGGAGGAC U GGGUGAAC	3363	GUUCACCC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCCU	18671
10586	GGGUGAAC A AAGCCGCG	3364	CGCGGCUU CUGAUGAG	GCCGUUAGGC	CGAA IUUCACCC	18672
10591	AACAAAGC C GCGAAGUG	3365	CACUUCGC CUGAUGAG	GCCGUUAGGC	CGAA ICUUUGUU	18673
10603	AAGUGAUC C AUGUAAGC	3366	GCUUAUAC CUGAUGAG	GCCGUUAGGC	CGAA IAUACAUU	18674
10604	AGUGAUCC A UGUUAGCC	3367	GGCUUACA CUGAUGAG	GCCGUUAGGC	CGAA IGAUCACU	18675
10612	AUGUAAGC C CUCAGAAC	3368	GUUCUGAG CUGAUGAG	GCCGUUAGGC	CGAA ICUUACAU	18676
10613	UGUAAGCC C UCAGAACC	3369	GGUUCUGA CUGAUGAG	GCCGUUAGGC	CGAA IGCUUACA	18677
10614	GUAAGCCC U CAGAACCG	3370	CGGUUCUG CUGAUGAG	GCCGUUAGGC	CGAA IGGCUUAC	18678
10616	AAGCCCUC A GAACCGUC	3371	GACGGUUC CUGAUGAG	GCCGUUAGGC	CGAA IAGGCUU	18679
10621	CUCAGAAC C GUCUCGGA	3372	UCCGAGAC CUGAUGAG	GCCGUUAGGC	CGAA IUUCUGAG	18680
10625	GAACCGUC U CGGAAGGA	3373	UCCUCCG CUGAUGAG	GCCGUUAGGC	CGAA IACGGUUC	18681
10638	AGGAGGAC C CCACAUGU	3374	ACAUGUGG CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCCU	18682
10639	GGAGGACC C CACAUGUU	3375	AACAUGUG CUGAUGAG	GCCGUUAGGC	CGAA IGUCCUCC	18683
10640	GAGGACCC C ACAUGUUG	3376	CAACAUGU CUGAUGAG	GCCGUUAGGC	CGAA IGGUCCUC	18684
10641	AGGACCCC A CAUGUUGU	3377	ACAACAUG CUGAUGAG	GCCGUUAGGC	CGAA IGGGUCCU	18685
10643	GACCCAC A UGUUGUAA	3378	UUACAACA CUGAUGAG	GCCGUUAGGC	CGAA IUGGGGUC	18686
10653	GUUGUAA C UCAAGCC	3379	GGCUUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUUACAAC	18687
10656	GUAACUUC A AAGCCAA	3380	UUGGGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAAGUUAC	18688
10661	UUCAAAGC C CAAUGUCA	3381	UGACAUG CUGAUGAG	GCCGUUAGGC	CGAA ICUUUGAA	18689
10662	UCAAAGCC C AAUGUCAG	3382	CUGACAUC CUGAUGAG	GCCGUUAGGC	CGAA IGCUUUGA	18690
10663	CAAAGCCC A AUGUCAGA	3383	UCUGACAU CUGAUGAG	GCCGUUAGGC	CGAA IGGCUUUG	18691
10669	CAAUGUC A GACCACGC	3384	GCUGGGUC CUGAUGAG	GCCGUUAGGC	CGAA IACAUGGG	18692
10673	UGUCAGAC C ACGCUACG	3385	CGUAGCGU CUGAUGAG	GCCGUUAGGC	CGAA IUCUGACA	18693
10674	GUCAGACC A CGCUACGG	3386	CCGUAGCG CUGAUGAG	GCCGUUAGGC	CGAA IGUCUGAC	18694
10678	GACCACGC U ACGCGGUG	3387	CACGCCGU CUGAUGAG	GCCGUUAGGC	CGAA ICGUGGUC	18695
10688	CGCGUGC U ACUCUGCG	3388	CGCAGAGU CUGAUGAG	GCCGUUAGGC	CGAA ICACGCGG	18696
10691	CGUGCUAC U CUGCGGAG	3389	CUCCGCAG CUGAUGAG	GCCGUUAGGC	CGAA IUAGCACG	18697
10693	UGCUACUC U GCGGAGAG	3390	CUCUCCGC CUGAUGAG	GCCGUUAGGC	CGAA IAGUAGCA	18698
10705	GAGAGUGC A GUCUGCGA	3391	UCGCAGAC CUGAUGAG	GCCGUUAGGC	CGAA ICACUCUC	18699
10709	GUGCAGUC U GCGAUAGU	3392	ACUUAUCG CUGAUGAG	GCCGUUAGGC	CGAA IACUGCAC	18700
10720	GAUAGUGC C CCAGGAGG	3393	CCUCCUGG CUGAUGAG	GCCGUUAGGC	CGAA ICACUAUC	18701
10721	AUAGUGCC C CAGGAGGA	3394	UCCUCCUG CUGAUGAG	GCCGUUAGGC	CGAA IGCACUAU	18702
10722	UAGUGCCC C AGGAGGAC	3395	GUCUCCU CUGAUGAG	GCCGUUAGGC	CGAA IGGCACUA	18703
10723	AGUGCCCC A GGAGGACU	3396	AGUCCUCC CUGAUGAG	GCCGUUAGGC	CGAA IGGGCACU	18704
10731	AGGAGGAC U GGUUUAAC	3397	GUUAACCC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCCU	18705
10740	GGGUUAAC A AAGGCAAA	3398	UUUGCCU CUGAUGAG	GCCGUUAGGC	CGAA IUUAACCC	18706
10746	ACAAAGGC A AACCAACG	3399	CGUUGGUU CUGAUGAG	GCCGUUAGGC	CGAA ICCUUGUU	18707
10750	AGGCAAAC C AACGCCCC	3400	GGGGCGUU CUGAUGAG	GCCGUUAGGC	CGAA IUUUGCCU	18708
10751	GGCAAAAC A ACGCCCCA	3401	UGGGGCGU CUGAUGAG	GCCGUUAGGC	CGAA IGUUUGCC	18709
10756	ACCAACGC C CACGCGG	3402	CCGCGUGG CUGAUGAG	GCCGUUAGGC	CGAA ICGUUGGU	18710
10757	CCAACGCC C CACGCGGC	3403	GCCGCGUG CUGAUGAG	GCCGUUAGGC	CGAA ICGUUGGG	18711
10758	CAACGCCC C ACGCGGCC	3404	GGCCGCGU CUGAUGAG	GCCGUUAGGC	CGAA IGGCGUUG	18712
10759	AACGCCCC A CGCGGCC	3405	GGGCGCG CUGAUGAG	GCCGUUAGGC	CGAA IGGGCGUU	18713
10766	CACGCGGC C CUAGCCCC	3406	GGGGCUAG CUGAUGAG	GCCGUUAGGC	CGAA ICCGCGUG	18714
10767	ACGCGGCC C UAGCCCCG	3407	CGGGGCUA CUGAUGAG	GCCGUUAGGC	CGAA IGCCGCGU	18715
10768	CGCGGCC U AGCCCCG	3408	CCGGGCGU CUGAUGAG	GCCGUUAGGC	CGAA IGGCCGCG	18716
10772	GCCUAGC C CCGUAAU	3409	AUUACCG CUGAUGAG	GCCGUUAGGC	CGAA ICUAGGGC	18717
10773	CCUAGCC C CGUAAUG	3410	CAUUAACG CUGAUGAG	GCCGUUAGGC	CGAA IGCUAGGG	18718
10774	CCUAGCCC C GGUAAUGG	3411	CCAUAACC CUGAUGAG	GCCGUUAGGC	CGAA IGGCUAGG	18719
10790	GUGUUAAC C AGGGCGAA	3412	UUCGCCC CUGAUGAG	GCCGUUAGGC	CGAA IUUAACAC	18720
10791	UGUUAACC A GGGCGAAA	3413	UUUCGCC CUGAUGAG	GCCGUUAGGC	CGAA IGUUAACA	18721

Table IV

10804	GAAAGGAC U AGAGGUUA	3414	UAACCUCU CUGAUGAG	GCCGUUAGGC	CGAA IUCCUUUC	18722
10821	GAGGAGAC C CCGCGGUU	3415	AACCGCGG CUGAUGAG	GCCGUUAGGC	CGAA IUCUCCUC	18723
10822	AGGAGACC C CCGGUUUU	3416	AAACCGCG CUGAUGAG	GCCGUUAGGC	CGAA IGUCUCCU	18724
10823	GGAGACCC C GCGGUUUA	3417	UAAACCGC CUGAUGAG	GCCGUUAGGC	CGAA IGGUCUCC	18725
10838	UAAAGUGC A CCGCCAG	3418	CUGGGCCG CUGAUGAG	GCCGUUAGGC	CGAA ICACUUUA	18726
10843	UGCACGGC C CAGCCUGA	3419	UCAGGCUG CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGCA	18727
10844	GCACGGCC C AGCCUGAC	3420	GUCAGGCU CUGAUGAG	GCCGUUAGGC	CGAA IGCCGUGC	18728
10845	CACGGCCC A GCCUGACU	3421	AGUCAGGC CUGAUGAG	GCCGUUAGGC	CGAA IGGCCGUG	18729
10848	GGCCACGC C UGACUGAA	3422	UUCAGUCA CUGAUGAG	GCCGUUAGGC	CGAA ICUGGGCC	18730
10849	GCCCGACC U GACUGAAG	3423	CUUCAGUC CUGAUGAG	GCCGUUAGGC	CGAA IGCUGGGC	18731
10853	AGCCUGAC U GAAGCUGU	3424	ACAGCUUC CUGAUGAG	GCCGUUAGGC	CGAA IUCAGGCU	18732
10859	ACUGAAGC U GUAGGUCA	3425	UGACCUAC CUGAUGAG	GCCGUUAGGC	CGAA ICUCAGU	18733
10867	UGUAGGUC A GGGGAAGG	3426	CCUJCCCC CUGAUGAG	GCCGUUAGGC	CGAA IACCUCUA	18734
10878	GGAAGGAC U AGAGGUUA	3427	UAACCCUC CUGAUGAG	GCCGUUAGGC	CGAA IUCGUUCC	18735
10895	GUGGAGAC C CCGUGCCA	3428	UGGCACGG CUGAUGAG	GCCGUUAGGC	CGAA IUCUCCAC	18736
10896	UGGAGACC C CGUGCCAC	3429	GUGGCACG CUGAUGAG	GCCGUUAGGC	CGAA IGUCUCCA	18737
10897	GGAGACCC C GUGCCACA	3430	UGUGGCAC CUGAUGAG	GCCGUUAGGC	CGAA IGGUCUCC	18738
10902	CCCGUGGC C ACAAAACA	3431	UGUUUUUG CUGAUGAG	GCCGUUAGGC	CGAA ICACGGGG	18739
10903	CCCGUGCC A CAAAACAC	3432	GUGUUUUG CUGAUGAG	GCCGUUAGGC	CGAA IGCACGGG	18740
10905	CGUGCCAC A AAACACCA	3433	UGGUGUUU CUGAUGAG	GCCGUUAGGC	CGAA IUGGCACG	18741
10910	CACAAAAC A CCACAACA	3434	UGUUGUGG CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGUG	18742
10912	CAAAACAC C ACAACAAA	3435	UUUGUUUG CUGAUGAG	GCCGUUAGGC	CGAA IUGUUUUG	18743
10913	AAAACACC A CAACAAA	3436	UUUUGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGUGUUUU	18744
10915	AACACCAC A ACAAAACA	3437	UGUUUUUG CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGUU	18745
10918	ACCACAAC A AAACAGCA	3438	UGCUGUUU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGGU	18746
10923	AACAAAAC A GCAUAUUG	3439	CAAUAUUC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGUU	18747
10926	AAAACAGC A UAUGACA	3440	UGUCAUAU CUGAUGAG	GCCGUUAGGC	CGAA ICUGUUUU	18748
10934	AUAUUGAC A CCUGGGAU	3441	AUCCACGG CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUAU	18749
10936	AUUGACAC C UGGGAUAG	3442	CUAUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IUGCAUAU	18750
10937	UUGACACC U GGGAUAGA	3443	UCUAUCCC CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCAA	18751
10947	GGAUAGAC U AGGAGAUC	3444	GAUCUCCU CUGAUGAG	GCCGUUAGGC	CGAA IUCUAUCC	18752
10956	AGGAGAUC U UCUGUCU	3445	AGAGCAGA CUGAUGAG	GCCGUUAGGC	CGAA IAUCUCCU	18753
10959	AGAUCUUC U GCUCUGCA	3446	UGCAGAGC CUGAUGAG	GCCGUUAGGC	CGAA IAAGAUUC	18754
10962	UCUUCUGC U CUGACAA	3447	UUGUGCAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGAAGA	18755
10964	UUCUGCUC U GCACAACC	3448	GGUUGUGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCAGAA	18756
10967	UGCUCUGC A CAACCAGC	3449	GCUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGCA	18757
10969	CUCUGCAC A ACCAGCCA	3450	UGGCUGGU CUGAUGAG	GCCGUUAGGC	CGAA IUGCAGAG	18758
10972	UGCACAAC C AGCCACAC	3451	GUGUGGCU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGCA	18759
10973	GCACAACC A GCCACACG	3452	CGUGUGGC CUGAUGAG	GCCGUUAGGC	CGAA IGUUGUGC	18760
10976	CAACCAGC C ACACGGCA	3453	UGCCGUGU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGUUG	18761
10977	AACCAGCC A CACGGCAC	3454	GUGCCGUG CUGAUGAG	GCCGUUAGGC	CGAA IGCUGGUU	18762
10979	CCAGCCAC A CGGCACAG	3455	CUGUGCCG CUGAUGAG	GCCGUUAGGC	CGAA IUGGCUUG	18763
10984	CACACGGC A CAGUGCGC	3456	GCGCACUG CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGUG	18764
10986	CACGGCAC A GUGCGCCG	3457	CGGCGCAC CUGAUGAG	GCCGUUAGGC	CGAA IUGCCGUG	18765
10993	CAGUGCGC C GACAAUGG	3458	CCAUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICGCACUG	18766
10997	GCGCCGAC A AUGGUGGC	3459	GCCACCAU CUGAUGAG	GCCGUUAGGC	CGAA IUCGCGC	18767
11006	AUGGUGGC U GGUGGUGC	3460	GCACCACC CUGAUGAG	GCCGUUAGGC	CGAA ICCACCAU	18768
11021	GCGAGAAC A CAGGAUCU	3461	AGAUCUG CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCGC	18769

Input Sequence = AF196835. Cut Site = CH/.

Arm Length = 8. Core Sequence = CUGAUGAG X CGAA (X = GCCGUUAGGC or other stem II)

AF196835 West Nile virus strain NY99-flamingo382-99, complete genome

Table V

Table V: WNV Zinzyme and Target Sequence

Pos	Substrate	Seq ID	Ribozyme	Rz Seq ID
9	AGUAGUUC G CCUGUGUG	3462	CACACAGG GCCGAAAGGCGAGUGAGGUCU GAACUACU	18770
13	GUUCGCCU G UGUGAGCU	3463	AGCUCACA GCCGAAAGGCGAGUGAGGUCU AGGCGAAC	18771
15	UCGCCUGU G UGAGCUGA	3464	UCAGCUCA GCCGAAAGGCGAGUGAGGUCU ACAGGCGA	18772
19	CUGUGUGA G CUGACAAA	3465	UUUGUCAG GCCGAAAGGCGAGUGAGGUCU UCACACAG	18773
32	CAACUUA G UAGUGUUU	3466	AAACACUA GCCGAAAGGCGAGUGAGGUCU UAAAGUUUG	18774
35	ACUUAAGU G UGUUUGUG	3467	CACAAACA GCCGAAAGGCGAGUGAGGUCU UACUAAAGU	18775
37	UUAGUAGU G UUUGUGAG	3468	CUCACAAA GCCGAAAGGCGAGUGAGGUCU ACUACUAA	18776
41	UAGUGUUU G UGAGGAUU	3469	AUUCUCUA GCCGAAAGGCGAGUGAGGUCU AAACACUA	18777
66	UUAACACA G UGCGAGCU	3470	AGCUCGCA GCCGAAAGGCGAGUGAGGUCU UGUGUUA	18778
68	AACACAGU G CGAGCUGU	3471	ACAGCUCG GCCGAAAGGCGAGUGAGGUCU ACUGUGUU	18779
72	CAGUGCGA G CUGUUUCU	3472	AGAAACAG GCCGAAAGGCGAGUGAGGUCU UCGCACUG	18780
75	UGCGAGCU G UUUCUUG	3473	CUAAGAAA GCCGAAAGGCGAGUGAGGUCU AGCUCGCA	18781
83	GUUUCUUA G CACGAAGA	3474	UCUUCUGG GCCGAAAGGCGAGUGAGGUCU UAAAGAAC	18782
99	AUCUCGAU G UCUAAGAA	3475	UUCUUAGA GCCGAAAGGCGAGUGAGGUCU AUCGAGAU	18783
117	CCGAGAGG G CCGGGCAA	3476	UUGCCGGG GCCGAAAGGCGAGUGAGGUCU CUUCUUGG	18784
122	AGGGCCCG G CAAGAGCC	3477	GGUCUUG GCCGAAAGGCGAGUGAGGUCU CCGGCCCU	18785
128	CGGCAAGA G CCGGGCUG	3478	CAGCCCCG GCCGAAAGGCGAGUGAGGUCU UCUGCCCG	18786
133	AGAGCCGG G CUGUCAUU	3479	AUUGACAG GCCGAAAGGCGAGUGAGGUCU CCGGCUCU	18787
136	GCCGGGCU G UCAUAUUG	3480	CAUAUUGA GCCGAAAGGCGAGUGAGGUCU AGCCCGGC	18788
144	GUCAUAU G CUAAACG	3481	CGUUUUGA GCCGAAAGGCGAGUGAGGUCU AUAUUGAC	18789
152	GUAAAAC G CGGAUUG	3482	GCAUUCGG GCCGAAAGGCGAGUGAGGUCU GUUUUAGC	18790
159	CGCGGAU G CCCCAGU	3483	ACGCGGGG GCCGAAAGGCGAGUGAGGUCU AUUCCGCG	18791
164	AUUGCCCC G CGUGUUGU	3484	ACAACAG GCCGAAAGGCGAGUGAGGUCU GGGCAUU	18792
166	UGCCCCGC G UGUUUGCU	3485	GGACAACA GCCGAAAGGCGAGUGAGGUCU GCGGGGCA	18793
168	CCCCGGGU G UUGUCCUU	3486	AAGGACAA GCCGAAAGGCGAGUGAGGUCU ACGCGGGG	18794
171	CGCGUGUU G UCCUUGAU	3487	AUCAAGGA GCCGAAAGGCGAGUGAGGUCU AACACGCG	18795
193	UGAAGAGG G CUUUGUUG	3488	CAACAUAU GCCGAAAGGCGAGUGAGGUCU CCUCUUA	18796
198	AGGCUUAU G UUGAGCCU	3489	AGGCUCAA GCCGAAAGGCGAGUGAGGUCU AUAGCCCU	18797
203	UAUGUUGA G CCUGAUCG	3490	CGAUCAGG GCCGAAAGGCGAGUGAGGUCU UCAACAUA	18798
215	GAUCGACG G CAAGGGGC	3491	GCCCCUUG GCCGAAAGGCGAGUGAGGUCU CGUCGAUC	18799
222	GGCAAGGG G CCAUAACG	3492	CGUAUUGG GCCGAAAGGCGAGUGAGGUCU CCUUGGCC	18800
235	UACGAUUU G UGUUGGCU	3493	AGCCAACA GCCGAAAGGCGAGUGAGGUCU AAUUGGUA	18801
237	CGAUUUGU G UUGGUCUU	3494	AGAGCCAA GCCGAAAGGCGAGUGAGGUCU ACAAUUCG	18802
241	UUGUGUUG G CUCUCUUG	3495	CAAGAGAG GCCGAAAGGCGAGUGAGGUCU CAACACAA	18803
250	CUCUCUUG G CGUUCUUC	3496	GAAGAACG GCCGAAAGGCGAGUGAGGUCU CAAGAGAG	18804
252	CUCUUGGC G UUCUUCAG	3497	CUGAAGAA GCCGAAAGGCGAGUGAGGUCU GCCAAGAG	18805

Table V

261	UUCUUCAG G UUCACAGC	3498	GCUGUGAA GCCGAAAGCGGAGUGAGGUCU CUGAAGAA	18806
268	GGUUCACA G CAAUUGCU	3499	AGCAAUUG GCCGAAAGCGGAGUGAGGUCU UGUGAACC	18807
274	CAGCAAUU G CUCCGACC	3500	GGUCGGAG GCCGAAAGCGGAGUGAGGUCU AAUUGCUG	18808
286	CAGACCGA G CAGUGCUG	3501	CAGCACUG GCCGAAAGCGGAGUGAGGUCU UCGGGUUG	18809
289	CCCGAGCA G UGUGGAU	3502	AUCCAGCA GCCGAAAGCGGAGUGAGGUCU UGUCUGGG	18810
291	CCAGCAGU G CUGGAUCG	3503	CGAUCAG GCCGAAAGCGGAGUGAGGUCU ACUGCUGG	18811
308	AUGGAGAG G UGUGAAC	3504	UGUUCACA GCCGAAAGCGGAGUGAGGUCU CUCUCCAU	18812
310	GGAGAGGU G UGAACAAA	3505	UUUGUUA GCCGAAAGCGGAGUGAGGUCU ACCUCUCC	18813
325	AACAAACA G CGAUGAAA	3506	UUUCAUCG GCCGAAAGCGGAGUGAGGUCU UGUUUGUU	18814
344	CUUCUGA G UUUUAAGA	3507	UCUUAAAA GCCGAAAGCGGAGUGAGGUCU UCAGAAGG	18815
374	CUUGACCA G UGUUAUCA	3508	UGAUGACA GCCGAAAGCGGAGUGAGGUCU UGGUCAAG	18816
376	UGACCCAGU G CUUAUCAU	3509	AUUGAUAG GCCGAAAGCGGAGUGAGGUCU ACUGGUCA	18817
387	AUCAUCG G CGGAGCUC	3510	GAGCUCGG GCCGAAAGCGGAGUGAGGUCU CGAUTUGAU	18818
392	UGGGCGGA G CUCAAAAC	3511	GUUUUGAG GCCGAAAGCGGAGUGAGGUCU UCCGCCGA	18819
430	CCGGAUU G CAGUCAUG	3512	CAUGACUG GCCGAAAGCGGAGUGAGGUCU AAUUCGCG	18820
433	GAUUGCA G UCAUGAUU	3513	AAUCAUGA GCCGAAAGCGGAGUGAGGUCU UGCAAUUC	18821
443	CAUGAUUG G CCUGAUCG	3514	CGAUCAGG GCCGAAAGCGGAGUGAGGUCU CAAUCAUG	18822
451	GCTUGAUC G CCAGCGUA	3515	UACGCTGG GCCGAAAGCGGAGUGAGGUCU GAUCAGGC	18823
455	GAUCGCCA G CGUAGGAG	3516	CUCCUACG GCCGAAAGCGGAGUGAGGUCU UGGCGAUC	18824
457	UGCCAGC G UAGGAGCA	3517	UGCUCCUA GCCGAAAGCGGAGUGAGGUCU GCUGGCCA	18825
463	GGUAGGA G CAGUUACC	3518	GGUAACUG GCCGAAAGCGGAGUGAGGUCU UCCUACGC	18826
466	UAGGAGCA G UUACCCUC	3519	GAGGGUAA GCCGAAAGCGGAGUGAGGUCU UGCUCCTA	18827
493	AAGGGAG G UGAUGAUG	3520	CAUCAUCA GCCGAAAGCGGAGUGAGGUCU CUUCCCUU	18828
505	UGAUGACG G UAAUUGCU	3521	AGCAUUUA GCCGAAAGCGGAGUGAGGUCU CGUCAUCA	18829
511	CGGUAAAU G CUACUGAC	3522	GUCAGUAG GCCGAAAGCGGAGUGAGGUCU AUUUACCG	18830
520	CUACUGAC G UCACAGAU	3523	AUCUGUGA GCCGAAAGCGGAGUGAGGUCU GUCAGUAG	18831
529	UCACAGAU G UCAUCACG	3524	CGUGAUGA GCCGAAAGCGGAGUGAGGUCU AUCUGUGA	18832
547	UUCCAACA G CUGCUGGA	3525	UCCAGCAG GCCGAAAGCGGAGUGAGGUCU UGUUGGAA	18833
550	CAACAGCU G CUGGAAAG	3526	CUUUCCAG GCCGAAAGCGGAGUGAGGUCU AGCUGUUG	18834
566	GAACCUAU G CAUUGUCA	3527	UGACAAUG GCCGAAAGCGGAGUGAGGUCU AUAGGUUC	18835
571	UAUGCAUU G UCAGAGCA	3528	UGCUCUGA GCCGAAAGCGGAGUGAGGUCU AAUGCAUA	18836
577	UUGUCAGA G CAAUGGAU	3529	AUCCAUUG GCCGAAAGCGGAGUGAGGUCU UCUGACAA	18837
586	CAUUGGAU G UGGGAUAC	3530	GUUUCCCA GCCGAAAGCGGAGUGAGGUCU AUCCAUUG	18838
597	GGAUACAU G UGCGAUGA	3531	UCAUCGCA GCCGAAAGCGGAGUGAGGUCU AUGUAUCC	18839
599	AUACADUG G CGAUGAUA	3532	UAUCAUCG GCCGAAAGCGGAGUGAGGUCU ACAUGUAU	18840
623	UUAUGAAU G CCCAGUGC	3533	GCACUGGG GCCGAAAGCGGAGUGAGGUCU AUUCAUAA	18841
628	AUGACCCA G UGCUUGCG	3534	CGACAGCA GCCGAAAGCGGAGUGAGGUCU UGGGCAUU	18842
630	UGCCAGU G CUGUCGAC	3535	CGCGACAG GCCGAAAGCGGAGUGAGGUCU ACUGGGCA	18843
633	CCAGUGCU G UCGGCUGG	3536	CCAGCCGA GCCGAAAGCGGAGUGAGGUCU AGCACUGG	18844
637	UGCUGUG G CUGGUAAU	3537	AUUACCAG GCCGAAAGCGGAGUGAGGUCU CGACAGCA	18845

Table V

641	GUUGGUG G UUAUGAUC	3538	GAUCAUUA GCCGAAAGGCGAGUGAGGUCU CAGCCGAC	18846
665	CAUGGACU G UUGGUGCA	3539	UGCACCAA GCCGAAAGGCGAGUGAGGUCU AGUCGAUG	18847
669	GACUGUUG G UGCACAAA	3540	UUUGUGCA GCCGAAAGGCGAGUGAGGUCU CAACAGUC	18848
671	CUGUUGU G CACAAAGU	3541	ACUUUGUG GCCGAAAGGCGAGUGAGGUCU ACCAACAG	18849
678	UGCACAAA G UCAGCAGU	3542	ACUGUGCA GCCGAAAGGCGAGUGAGGUCU UUUGUGCA	18850
682	CAAGUGCA G CAGUCUAC	3543	GUAGACUG GCCGAAAGGCGAGUGAGGUCU UGACUUUG	18851
685	AGUCAGCA G UCUACGUC	3544	GACGUAGA GCCGAAAGGCGAGUGAGGUCU UGCUGACU	18852
691	CAGUCUAC G UCAGGUUAU	3545	AUACCUCA GCCGAAAGGCGAGUGAGGUCU GUAGACUG	18853
696	UAGUCAG G UAUGGAAG	3546	CUUCCAUA GCCGAAAGGCGAGUGAGGUCU CUGACGUA	18854
707	UGGAAGAU G CACCAAGA	3547	UCUUGGUG GCCGAAAGGCGAGUGAGGUCU AUUUUCCA	18855
719	CAAGACAC G CCACTUCA	3548	UUGAGUGG GCCGAAAGGCGAGUGAGGUCU GUGUCUUG	18856
731	CUCAAGAC G CAGUCGGA	3549	UCCGACUG GCCGAAAGGCGAGUGAGGUCU GUCUUUGAG	18857
734	AAGACGCA G UCGGAGGU	3550	ACUCCGCA GCCGAAAGGCGAGUGAGGUCU UCGGUCUU	18858
741	AGUCGGAG G UCACUGAC	3551	GUCAUGUA GCCGAAAGGCGAGUGAGGUCU UCCCGACU	18859
751	CACUGACA G UGCAGACA	3552	UGUCUGCA GCCGAAAGGCGAGUGAGGUCU UGUCAGUG	18860
753	CUGACAGU G CAGACACA	3553	UGUGUCUG GCCGAAAGGCGAGUGAGGUCU ACUGUCAG	18861
770	CGAGAGAA G CACUCUAG	3554	CUAGAGUG GCCGAAAGGCGAGUGAGGUCU UUUUCUCC	18862
778	GCACUCUA G CGAACAA	3555	CUUGUUCG GCCGAAAGGCGAGUGAGGUCU UAGAGUGC	18863
793	AGAAGGGG G CUUGGAUG	3556	CAUCCAAG GCCGAAAGGCGAGUGAGGUCU CCCUUCU	18864
806	GAUGGACA G CACCAAGG	3557	CCUUGGUG GCCGAAAGGCGAGUGAGGUCU UGUCCAU	18865
814	GCACCAAG G CCACAAGG	3558	CCUUGUGG GCCGAAAGGCGAGUGAGGUCU CUUGUGGC	18866
822	GCCACAAG G UAUUUGGU	3559	ACCAAAUA GCCGAAAGGCGAGUGAGGUCU CUUGUGGC	18867
829	GUUAUUG G UAAAAACA	3560	UGUUUUUA GCCGAAAGGCGAGUGAGGUCU CAAAUACC	18868
868	CUGGAUAU G CCUUGGUG	3561	CACCAAGG GCCGAAAGGCGAGUGAGGUCU AUUCCAG	18869
874	AUGCCUUG G UGGCAGCC	3562	GGCUGCCA GCCGAAAGGCGAGUGAGGUCU CAGGGCAU	18870
877	CCUUGGUG G CAGCCGUC	3563	GACGGCUG GCCGAAAGGCGAGUGAGGUCU CACCAAGG	18871
880	UGGUGGCA G CCGUCAU	3564	AUUGACGG GCCGAAAGGCGAGUGAGGUCU UGCCACCA	18872
883	UGGCAGCC G UCAUUGGU	3565	ACCAUAUA GCCGAAAGGCGAGUGAGGUCU GGCUGCCA	18873
890	CGUCAUUG G UUGGAUGC	3566	GCAUCCAA GCCGAAAGGCGAGUGAGGUCU CAAUGACG	18874
897	GGUUGGAG G CUUGGGAG	3567	CUCCCAAG GCCGAAAGGCGAGUGAGGUCU AUCCAACC	18875
905	GUUUGGGA G CAACACCA	3568	UGGUGUUG GCCGAAAGGCGAGUGAGGUCU UCCCAAGC	18876
915	AACACCAU G CAGAGAGU	3569	ACUCUCUG GCCGAAAGGCGAGUGAGGUCU AUGGUGUU	18877
922	UGCAGAGA G UUGUGUUU	3570	AAACACAA GCCGAAAGGCGAGUGAGGUCU UCUCUGCA	18878
925	AGAGAGUU G UGUUUGUC	3571	GACAAACA GCCGAAAGGCGAGUGAGGUCU AACUCUCU	18879
927	AGAGUUGU G UUGUUCGU	3572	ACGACAAA GCCGAAAGGCGAGUGAGGUCU ACAACUCU	18880
931	UUGUGUUU G UCGUGCUA	3573	UAGCACGA GCCGAAAGGCGAGUGAGGUCU AAACACAA	18881
934	UUUUUGUC G UGUUAUUG	3574	CAUAAGCA GCCGAAAGGCGAGUGAGGUCU GACAAACA	18882
936	UUUUGUCU G CUUAUUGU	3575	AGCAUAAG GCCGAAAGGCGAGUGAGGUCU ACGACAAA	18883
942	GUGCUAUU G CUUUUGGU	3576	ACCAAAAG GCCGAAAGGCGAGUGAGGUCU AAUAGCAC	18884
949	UGCUUUUG G UGGCCCCA	3577	UGGGGCCA GCCGAAAGGCGAGUGAGGUCU CAAAAGCA	18885

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952	UUUUGUG G CCCAGCU	3578	AGCUGGG GCCGAAAGCGAGUGAGGUCU CACCAAAA	18886
958	UGGCCCA G CUUACAGC	3579	GCTUGAAG GCCGAAAGCGAGUGAGGUCU UGGGGCCA	18887
965	AGCUACA G CUUCAACU	3580	AGUUGAAG GCCGAAAGCGAGUGAGGUCU UGUAAAGCU	18888
974	UUCAACU G CUUUGGAA	3581	UUCCAAG GCCGAAAGCGAGUGAGGUCU AGUUGAAG	18889
986	UGGAUGA G CAACAGAG	3582	CUUGUUG GCCGAAAGCGAGUGAGGUCU UCAUUCCA	18890
1009	UGGAAGGA G UGUCUGGA	3583	UCCAGACA GCCGAAAGCGAGUGAGGUCU UCCUUCCA	18891
1011	GAAGGAGU G UCUGGAGC	3584	GCUCCAGA GCCGAAAGCGAGUGAGGUCU ACUCCUUC	18892
1018	UGUCUGGA G CAACAUGG	3585	CCAUGUUG GCCGAAAGCGAGUGAGGUCU UCCAGACA	18893
1027	CAACAUGG G UGGAUUUG	3586	CAAUUCCA GCCGAAAGCGAGUGAGGUCU CCAUUGUG	18894
1036	UGGAUUUG G UUCUCGAA	3587	UUCGAGAA GCCGAAAGCGAGUGAGGUCU CMAAUCCA	18895
1046	UCUGAAG G CGACAGCU	3588	AGCUGUCG GCCGAAAGCGAGUGAGGUCU CUUCGAGA	18896
1052	AGCGACA G CUGCGUGA	3589	UCACGCAG GCCGAAAGCGAGUGAGGUCU UGUUGCCU	18897
1055	CGACAGCU G CUGACTUA	3590	UAGUCACG GCCGAAAGCGAGUGAGGUCU AGCUGUCG	18898
1057	ACAGGUCG G UGACUAUC	3591	GAUAGUCA GCCGAAAGCGAGUGAGGUCU GCAGCUGU	18899
1068	ACUAUCAU G UCUAAGGA	3592	UCCUUGA GCCGAAAGCGAGUGAGGUCU AUGAUAGU	18900
1080	AAGGACAA G CCUACCAU	3593	AUGGUAGG GCCGAAAGCGAGUGAGGUCU UUGUCCUU	18901
1093	CCAUCGAU G UGAAGAU	3594	CAUCUUA GCCGAAAGCGAGUGAGGUCU AUGGAUGG	18902
1114	AUAUGGAG G CGUCUAC	3595	GUUGACCG GCCGAAAGCGAGUGAGGUCU CUCCAUAU	18903
1117	UGGAGCG G UCAACCTG	3596	CAGGUUGA GCCGAAAGCGAGUGAGGUCU CGCCUCCA	18904
1126	UCAACCTG G CAGAGGUC	3597	GACUCUUG GCCGAAAGCGAGUGAGGUCU CAGGUUGA	18905
1132	UGGCAGAG G UCCGCGAU	3598	ACTUGCGA GCCGAAAGCGAGUGAGGUCU CUCUGCCA	18906
1136	AGAGGUCC G CAGUUAU	3599	AAUAACUG GCCGAAAGCGAGUGAGGUCU GGACCUCU	18907
1139	GGUCCGCA G UUAUUGCU	3600	AGCAUAA GCCGAAAGCGAGUGAGGUCU UGCGGACC	18908
1145	CAGUUAU G CUUUUGG	3601	CCAAUAG GCCGAAAGCGAGUGAGGUCU AAUAACUG	18909
1153	GCUAUUUG G CUACCGUC	3602	GACGGUAG GCCGAAAGCGAGUGAGGUCU CAAUAAGC	18910
1159	UGGCUACC G UCAGCGAU	3603	AUCGCUGA GCCGAAAGCGAGUGAGGUCU GGUAGCCA	18911
1163	UACCGUCA G CGAUCUCU	3604	AGAGAUCG GCCGAAAGCGAGUGAGGUCU UGACGGUA	18912
1180	CCACCAA G CUGCGUGC	3605	GCAGCAG GCCGAAAGCGAGUGAGGUCU UUUGGUGG	18913
1183	CCAAAGCU G CGUGCCCG	3606	CGGGCACG GCCGAAAGCGAGUGAGGUCU AGCUUUGG	18914
1185	AAAGCUGC G UGCCCGAC	3607	GUCGGCA GCCGAAAGCGAGUGAGGUCU GCAGCUUU	18915
1187	AGCUGCGU G CCCGACCA	3608	UGGUCGGG GCCGAAAGCGAGUGAGGUCU ACGCAGCU	18916
1204	UGGAGAA G CUCACAAU	3609	AUUUGAG GCCGAAAGCGAGUGAGGUCU UUUCUCCA	18917
1220	UGACAAAC G UGUGACC	3610	GGUCACA GCCGAAAGCGAGUGAGGUCU GUUUUGCA	18918
1222	ACAAACGU G CUGACCCA	3611	UGGUCAG GCCGAAAGCGAGUGAGGUCU ACGUUUGU	18919
1231	CUGACCCA G CUUUUGUG	3612	CCGAAAG GCCGAAAGCGAGUGAGGUCU UGGGUCAG	18920
1237	CAGCUUUU G UGUGCAGA	3613	UCUGACA GCCGAAAGCGAGUGAGGUCU AAAAGCTG	18921
1239	GCUUUUUG G UGACACA	3614	UGUCUGCA GCCGAAAGCGAGUGAGGUCU ACAAAAGC	18922
1241	UUUUUGUG G CAGACAAG	3615	CUUGUCUG GCCGAAAGCGAGUGAGGUCU ACACAAAA	18923
1252	GACAAAGGA G UGUGGAC	3616	GUCCACA GCCGAAAGCGAGUGAGGUCU UCCUUGUC	18924
1255	AAGGAGUG G UGACAGG	3617	CCUGUCCA GCCGAAAGCGAGUGAGGUCU CACUCCUU	18925

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1265	GGACAGG G CUGGGCA	3618	UGCCCCAG GCCGAAAGCGAGUGAGGUCU	18926
1271	GGGUGGG G CAACGGCU	3619	AGCCGUUG GCCGAAAGCGAGUGAGGUCU	18927
1277	GGGCAACG G CUGCGGAU	3620	AUCCGCG GCCGAAAGCGAGUGAGGUCU	18928
1280	CAACGGCU G CGGAUUU	3621	AUAUCCG GCCGAAAGCGAGUGAGGUCU	18929
1292	AUAUUUG G CAAGGAA	3622	UUCCUUUG GCCGAAAGCGAGUGAGGUCU	18930
1301	CARAAGAA G CAUUGACA	3623	UGUCAUG GCCGAAAGCGAGUGAGGUCU	18931
1313	UGACACAU G CGCAGAAU	3624	AUUUGCG GCCGAAAGCGAGUGAGGUCU	18932
1315	ACACAUC G CCAAAUUU	3625	AAAUUUG GCCGAAAGCGAGUGAGGUCU	18933
1324	CCAAUUU G CCUGUCU	3626	AGAGCAG GCCGAAAGCGAGUGAGGUCU	18934
1328	AUUUGCU G CUCUACCA	3627	UGGUACAG GCCGAAAGCGAGUGAGGUCU	18935
1339	CUACCAAG G CAAUAGGA	3628	UCCUAUUG GCCGAAAGCGAGUGAGGUCU	18936
1374	AUAUCAA G UACGAAGU	3629	ACUUCGUA GCCGAAAGCGAGUGAGGUCU	18937
1381	AGUACGA G UGGCCAUU	3630	AAUGGCA GCCGAAAGCGAGUGAGGUCU	18938
1384	ACGAAGU G CCAUUUUU	3631	AAAAUUG GCCGAAAGCGAGUGAGGUCU	18939
1393	CAUUUUU G UCCAUGGA	3632	UCCAUGGA GCCGAAAGCGAGUGAGGUCU	18940
1411	CAACUACU G UGGAGUCG	3633	CGACUCCA GCCGAAAGCGAGUGAGGUCU	18941
1416	ACUUGGA G UCGCACGG	3634	CCGUGCGA GCCGAAAGCGAGUGAGGUCU	18942
1419	GUGGAGUC G CACGGAAA	3635	UUUCCUG GCCGAAAGCGAGUGAGGUCU	18943
1441	CCACACAG G UUGGAGCC	3636	GGCUCCAA GCCGAAAGCGAGUGAGGUCU	18944
1447	AGUUUGA G CCACUCAG	3637	CUGAGUG GCCGAAAGCGAGUGAGGUCU	18945
1456	CCACUCAG G CAGGAGA	3638	UTUCCUG GCCGAAAGCGAGUGAGGUCU	18946
1469	GAGAUCA G CAUCACUC	3639	GAGUGAUG GCCGAAAGCGAGUGAGGUCU	18947
1480	UCACUCCU G CGGCGCCU	3640	AGGCGCCG GCCGAAAGCGAGUGAGGUCU	18948
1483	CUCCUGCG G CGCCUUA	3641	UGAAGGG GCCGAAAGCGAGUGAGGUCU	18949
1485	CCUGCGGC G CCTUCAUA	3642	UAUGAAG GCCGAAAGCGAGUGAGGUCU	18950
1503	ACACUAAA G CUUGGAGA	3643	UCUCCAA GCCGAAAGCGAGUGAGGUCU	18951
1522	AUGGAGAG G UGACAGUG	3644	CACUGUCA GCCGAAAGCGAGUGAGGUCU	18952
1528	AGGUGACA G UGGACUGU	3645	ACAGUCCA GCCGAAAGCGAGUGAGGUCU	18953
1535	AGUGGACU G UGAACCA	3646	GUGGUCA GCCGAAAGCGAGUGAGGUCU	18954
1545	GAACCAAG G UCAGGGAU	3647	AUCCUGA GCCGAAAGCGAGUGAGGUCU	18955
1564	ACACAAU G CAUACUAC	3648	GUAGUAUG GCCGAAAGCGAGUGAGGUCU	18956
1573	CAUACUAC G UGAUACU	3649	AGUCAUCA GCCGAAAGCGAGUGAGGUCU	18957
1582	UGAUGACU G UUGAACA	3650	UGUCCAA GCCGAAAGCGAGUGAGGUCU	18958
1596	ACAAAGAC G UUCUUGU	3651	ACCAAGAA GCCGAAAGCGAGUGAGGUCU	18959
1603	CGUUCUUG G UCCAUCGU	3652	ACGAUGGA GCCGAAAGCGAGUGAGGUCU	18960
1610	GGUUAUC G UGAGUGGU	3653	ACCAUCA GCCGAAAGCGAGUGAGGUCU	18961
1614	CAUCUGA G UGUUUAU	3654	AUGAACA GCCGAAAGCGAGUGAGGUCU	18962
1617	CGUGAGUG G UUCAUGGA	3655	UCCAUGAA GCCGAAAGCGAGUGAGGUCU	18963
1643	CCCUUGGA G CAGUGCUG	3656	CAGCACTG GCCGAAAGCGAGUGAGGUCU	18964
1646	UUGGAGCA G UGUUGGAA	3657	UUCCAGCA GCCGAAAGCGAGUGAGGUCU	18965

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1648	GGAGCAGU G CUGGAAGU	3658	ACUUCAG GCCGAAAGCGAGUGAGGUCU ACUGCUCC	18966
1655	UGCUGGAA G UACUGUGU	3659	ACACAGUA GCCGAAAGCGAGUGAGGUCU UUCACGCA	18967
1660	GAAGUACU G UGUGGAGG	3660	CCUCCACA GCCGAAAGCGAGUGAGGUCU AGUACUUC	18968
1662	AGUACUGU G UGGAGGAA	3661	UUCUCCCA GCCGAAAGCGAGUGAGGUCU ACAGUACU	18969
1680	AGAGAGAC G UUAUUGA	3662	UCCAUUAA GCCGAAAGCGAGUGAGGUCU GUCUCUCU	18970
1689	UUAUUGGA G UUUGAGGA	3663	UCCUCAAA GCCGAAAGCGAGUGAGGUCU UCCAUUAA	18971
1705	AACCACAC G CCACGAAG	3664	CUUCGUGG GCCGAAAGCGAGUGAGGUCU GUGUGGUU	18972
1713	GCCACGAA G CAGUCUGU	3665	ACAGACUG GCCGAAAGCGAGUGAGGUCU UUCGUGGC	18973
1716	AGGAAGCA G UCUGUGAU	3666	AUCACAGA GCCGAAAGCGAGUGAGGUCU UGUUUCGU	18974
1720	AGCAGUCU G UGAUAGCA	3667	UGCUAUCA GCCGAAAGCGAGUGAGGUCU AGACTUGCU	18975
1726	CUGUGAUA G CAUUGGCG	3668	GCCCAUUG GCCGAAAGCGAGUGAGGUCU UAUACACAG	18976
1733	AGCAUUGG G CUCACAAG	3669	CUUGUGAG GCCGAAAGCGAGUGAGGUCU CCAUUGCU	18977
1747	AAGAGGGA G CUCUGCAU	3670	AUGCAGAG GCCGAAAGCGAGUGAGGUCU UCCUCUUC	18978
1752	GGAGCUCU G CAUCAAGC	3671	GCUUGAUG GCCGAAAGCGAGUGAGGUCU AGAGCUCC	18979
1759	UGCAUCAA G CUUUGGCU	3672	AGCCAAG GCCGAAAGCGAGUGAGGUCU UUGAUGCA	18980
1765	AAGCUUUG G CUGGAGCC	3673	GGCUTCCAG GCCGAAAGCGAGUGAGGUCU CAAAGCUU	18981
1771	UGGCUGGA G CCAUUCUU	3674	AGGAUUGG GCCGAAAGCGAGUGAGGUCU UCCAGCCA	18982
1780	CCAUUCUU G UGGAUUUU	3675	AAAUUCCA GCCGAAAGCGAGUGAGGUCU AGGAUUGG	18983
1793	AUUUCAA G CAACACUUG	3676	CAGUUGUG GCCGAAAGCGAGUGAGGUCU UUGAAAUA	18984
1801	GCAACACU G UCAAGUUG	3677	CRAUUGA GCCGAAAGCGAGUGAGGUCU AGUGUUGC	18985
1806	ACUGUCAA G UUGACGUC	3678	GAGUCUAA GCCGAAAGCGAGUGAGGUCU UUGACAGU	18986
1812	AGUUGAC G UCGGGUCA	3679	UGACCCGA GCCGAAAGCGAGUGAGGUCU GUCAACUU	18987
1817	GACGUGGG G UCAUUGA	3680	UCAAAUGA GCCGAAAGCGAGUGAGGUCU CCGAGGUC	18988
1827	CAUUUGAA G UGUAGAGU	3681	ACUCUACA GCCGAAAGCGAGUGAGGUCU UUCAAAUG	18989
1829	UUUGAAGU G UAGAGUGA	3682	UACUCUA GCCGAAAGCGAGUGAGGUCU ACUUCAAA	18990
1834	AGUGUAGA G UGAAGAUU	3683	CAUCUUA GCCGAAAGCGAGUGAGGUCU UCUACACU	18991
1851	GAATAAUU G CAGUUGAA	3684	UUCAAACU GCCGAAAGCGAGUGAGGUCU AAUUTUUC	18992
1854	AAAUUGCA G UUGAAGGG	3685	CCCUUCAA GCCGAAAGCGAGUGAGGUCU UGCAAUUU	18993
1874	AACCUAUG G CGUCUGUU	3686	AACAGACG GCCGAAAGCGAGUGAGGUCU CAUAGGUU	18994
1876	CCAUUGGC G UCUGUUA	3687	UGAACAGA GCCGAAAGCGAGUGAGGUCU GCCAUAGG	18995
1880	UGGCGUCU G UUCAAAGG	3688	CCUUUGAA GCCGAAAGCGAGUGAGGUCU AGACGCCA	18996
1888	GUUCAAG G CUUUCAG	3689	CUUGAAAG GCCGAAAGCGAGUGAGGUCU CUUUGAAC	18997
1896	GCUUUCAA G UUUCUUGG	3690	CCAAGAAA GCCGAAAGCGAGUGAGGUCU UUGAAAGC	18998
1912	GGACUCCC G CAGACACA	3691	UGUGUCUG GCCGAAAGCGAGUGAGGUCU GGGAGUCC	18999
1922	AGACACAG G UCACGGCA	3692	UGCGUGA GCCGAAAGCGAGUGAGGUCU CUUGUGUU	19000
1928	AGGUCACG G CACTUGGG	3693	CCACAGUG GCCGAAAGCGAGUGAGGUCU CGUGACCU	19001
1933	ACGGCACU G UGGUGUUG	3694	CAACACCA GCCGAAAGCGAGUGAGGUCU AGUGCCGU	19002
1936	GCACUGUG G UGUUGGAA	3695	UUCCAACA GCCGAAAGCGAGUGAGGUCU CACAGUGC	19003
1938	ACUGUGGU G UUGGAAUU	3696	AAUUCCAA GCCGAAAGCGAGUGAGGUCU ACCACAGU	19004
1947	UUGGAAUU G CAGUACAC	3697	GUGUACUG GCCGAAAGCGAGUGAGGUCU AAUCCCAA	19005

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1950	GAUUGCA G UACACUGG	3698	CCAGUGUA GCCGAAAGCGAGUGAGGUCU UGCAAUUC	19006
1958	GUACACUG G CACGGAUG	3699	CAUCCGUG GCCGAAAGCGAGUGAGGUCU CAGUGUAC	19007
1973	UGGACCUU G CAAAGUUC	3700	GAAUUIUG GCCGAAAGCGAGUGAGGUCU AAGGUCCA	19008
1978	CUUGCAAA G UUCCUAUC	3701	GAUAGGAA GCCGAAAGCGAGUGAGGUCU UUUGCAAG	19009
1989	CCUAUCUC G UUCAGUGC	3702	GCCACUGA GCCGAAAGCGAGUGAGGUCU GAGAUAGG	19010
1993	UCUCUGUA G UGGCUUCA	3703	UGAAGCCA GCCGAAAGCGAGUGAGGUCU UGACGAGA	19011
1996	CGUCAGUG G CUUCAUUG	3704	CAAUGAAG GCCGAAAGCGAGUGAGGUCU CACUGACG	19012
2016	GACCUAAC G CCAGUGGG	3705	CCACUCUG GCCGAAAGCGAGUGAGGUCU GUUAGGUC	19013
2020	UAACGCCA G UGGGCAGA	3706	UCUGCCCA GCCGAAAGCGAGUGAGGUCU UGGCGUUA	19014
2024	GCCAGUGG G CAGAUUGG	3707	CCHAUCUG GCCGAAAGCGAGUGAGGUCU CCACUGGC	19015
2032	GCAGAUUG G UCACUUGC	3708	GACAGUGA GCCGAAAGCGAGUGAGGUCU CAAUCUGC	19016
2038	UGGUCACU G UCAACCCU	3709	AGGUUUGA GCCGAAAGCGAGUGAGGUCU AGUGACCA	19017
2050	ACCCUUUU G UUCACUG	3710	CACUGAAA GCCGAAAGCGAGUGAGGUCU AAAAGGCU	19018
2056	UUGUUAUA G UGGCCACG	3711	CGUGGCCA GCCGAAAGCGAGUGAGGUCU UGAAACAA	19019
2059	UUUCAGUG G CCACGGCC	3712	GGCGUGUG GCCGAAAGCGAGUGAGGUCU CACUGAAA	19020
2065	UGGCCACG G CCAACGCU	3713	AGGUUUGG GCCGAAAGCGAGUGAGGUCU CGUGGCCA	19021
2071	CGGCCAAC G CUAAGGUC	3714	GACCUUAG GCCGAAAGCGAGUGAGGUCU GUUGGCCG	19022
2077	ACGCUAAG G UCCUGAUU	3715	AAUCAGGA GCCGAAAGCGAGUGAGGUCU CUUAGGCU	19023
2119	CAUACAUU G UGGUGGCG	3716	GCCCACCA GCCGAAAGCGAGUGAGGUCU UAUUGUUG	19024
2122	ACAUAGUG G UGGGCAGA	3717	UCUGCCCA GCCGAAAGCGAGUGAGGUCU CACUAUGU	19025
2126	AGUGGUGG G CAGAGGAG	3718	CUCCUCUG GCCGAAAGCGAGUGAGGUCU CCACCACU	19026
2157	CACCAUUG G CACAAGUC	3719	GACUUGUG GCCGAAAGCGAGUGAGGUCU CAAUGGUG	19027
2163	UGGCACAA G UCUGGAAG	3720	CUUCCAGA GCCGAAAGCGAGUGAGGUCU UUGUGCCA	19028
2171	GUCUGGAA G CAGCAUUG	3721	CAUUGCUG GCCGAAAGCGAGUGAGGUCU UUCCAGAC	19029
2174	UGGAAGCA G CAUUGGCA	3722	UGCCAAUG GCCGAAAGCGAGUGAGGUCU UGCUUCCA	19030
2180	CAGCAUUG G CAAAGCCU	3723	AGGCUUUG GCCGAAAGCGAGUGAGGUCU CAAUGCUG	19031
2185	UUGGCAAA G CCUUUACA	3724	UGUAAAGG GCCGAAAGCGAGUGAGGUCU UUGGCCAA	19032
2209	UCAAAAGG G CGCAGAGA	3725	UCUCUGCG GCCGAAAGCGAGUGAGGUCU UCCUUUGA	19033
2211	AAAGGAGC G CAGAGACU	3726	AGUCUCUG GCCGAAAGCGAGUGAGGUCU GCUCUUUU	19034
2221	AGAGACUA G CCGUCUUA	3727	UAGAGCGG GCCGAAAGCGAGUGAGGUCU UAGUCUUC	19035
2224	GACUAGCC G CUUAGAGA	3728	UCCUAGAG GCCGAAAGCGAGUGAGGUCU GGCUAAGUC	19036
2239	GAGACACA G CUUGGGAC	3729	GUCCCAAG GCCGAAAGCGAGUGAGGUCU UGUGUCUC	19037
2257	UUGGAUCA G UUGGAGGG	3730	CCCUCCAA GCCGAAAGCGAGUGAGGUCU UGAUCCAA	19038
2266	UUGGAGGG G UGUUCACC	3731	GGUGAACA GCCGAAAGCGAGUGAGGUCU CCCUCCAA	19039
2268	GGAGGGGU G UUCACCUC	3732	GAGGUGAA GCCGAAAGCGAGUGAGGUCU ACCCUCC	19040
2278	UACCCUCA G UUGGGAG	3733	CUUCCCAA GCCGAAAGCGAGUGAGGUCU UGAGGUGA	19041
2287	UUGGGAGG G UGUUCCAU	3734	AUGGACAG GCCGAAAGCGAGUGAGGUCU CUUCCCAA	19042
2290	GGAAGGCU G UCCAUCAU	3735	UUGAUGGA GCCGAAAGCGAGUGAGGUCU AGCCUUC	19043
2299	UCCAUCAA G UGUUCGGA	3736	UCCGAACA GCCGAAAGCGAGUGAGGUCU UUGAUGGA	19044
2301	CAUCAAGU G UUCGGAGG	3737	CCUCCGAA GCCGAAAGCGAGUGAGGUCU ACUUGAUG	19045

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2311	UCGGAGGA G CAUUCGCG	3738	GCGGAUG GCGAAAGGCGAGUGAGGUCU UCCUCCGA	19046
2318	AGCAUUCG G CUCACUGU	3739	ACAGUGAG GCGAAAGGCGAGUGAGGUCU GGAUUGCU	19047
2325	CGCUCACU G UUCGGAGG	3740	CCUCCGAA GCGAAAGGCGAGUGAGGUCU AGUGAGCG	19048
2333	GUUCGGAG G CAUGUCCU	3741	AGGAUAU GCGAAAGGCGAGUGAGGUCU CUCCGAAC	19049
2337	GGAGGCAU G UCCUGGAU	3742	AUCCAGGA GCGAAAGGCGAGUGAGGUCU AUGCCUCC	19050
2349	UGGAUAAC G CAAGGAU	3743	AAUCCUUG GCGAAAGGCGAGUGAGGUCU GUUAUCCA	19051
2358	CAAGGAU G CUGGGGGC	3744	GCCCCAG GCGAAAGGCGAGUGAGGUCU AAUCCUUG	19052
2365	UGCUGGGG G CUCUCCUG	3745	CAGGAGAG GCGAAAGGCGAGUGAGGUCU CCCCAGCA	19053
2373	GCUCUCCU G UUGUGGAU	3746	AUCCACAA GCGAAAGGCGAGUGAGGUCU AGGAGAGC	19054
2376	CUCUGUU G UGGAUGGG	3747	CCCAUCCA GCGAAAGGCGAGUGAGGUCU AACAGGAG	19055
2384	GUGGAUG G CAUCAUUG	3748	CAUUGAUG GCGAAAGGCGAGUGAGGUCU CCAUCCAC	19056
2392	GAUCAAU G CUGUGAU	3749	AUCACGAG GCGAAAGGCGAGUGAGGUCU AUUGAUGC	19057
2396	CAAGUCUC G UGAUAGGU	3750	ACCUAUCA GCGAAAGGCGAGUGAGGUCU GAGCAUUG	19058
2403	CGUGAUG G UCCAUAAGC	3751	GCUAUGGA GCGAAAGGCGAGUGAGGUCU CUUUCACG	19059
2410	GGUCCAUA G CUCUCACG	3752	CGUGAGAG GCGAAAGGCGAGUGAGGUCU UAUGGACC	19060
2418	GCUCUCAC G UUUUCGCG	3753	GCGAGAAA GCGAAAGGCGAGUGAGGUCU GUGAGAGC	19061
2425	CGUUCUC G CAGUUGGA	3754	UCCAACUG GCGAAAGGCGAGUGAGGUCU GAGAAACG	19062
2428	UUCUCGCA G UUGGAGGA	3755	UCCUCCAA GCGAAAGGCGAGUGAGGUCU UGCGAGAA	19063
2437	UGGAUGGA G UUCUGCUC	3756	GAGCAGAA GCGAAAGGCGAGUGAGGUCU UCCUCCAA	19064
2442	GGAAGGU G CUCUUCUU	3757	AGGAAGAG GCGAAAGGCGAGUGAGGUCU AGAACUCC	19065
2455	UCCUUCUC G UGAACGUG	3758	CACGUUCA GCGAAAGGCGAGUGAGGUCU GGAGAGGA	19066
2461	CCGUGAAC G UGCACGCU	3759	AGCGUGCA GCGAAAGGCGAGUGAGGUCU GUUCACGG	19067
2463	GUGAACGU G CACGCUGA	3760	UCAGCGUG GCGAAAGGCGAGUGAGGUCU ACGUUCAC	19068
2467	ACGUGCAC G CUGACACU	3761	AGUGUCAG GCGAAAGGCGAGUGAGGUCU GUGCACGU	19069
2478	GACACUGG G UGUGCCAU	3762	AUGGCACA GCGAAAGGCGAGUGAGGUCU CCAGUGUC	19070
2480	CACUGGGU G UGCCAUAG	3763	CUAUGGCA GCGAAAGGCGAGUGAGGUCU ACCCAGUG	19071
2482	CUGGGUGU G CCAUAGAC	3764	GUCUAUGG GCGAAAGGCGAGUGAGGUCU ACACCCAG	19072
2495	AGACAUCA G CCGGCAAG	3765	CUUGCCGG GCGAAAGGCGAGUGAGGUCU UGAUGUCU	19073
2499	AUCAGCGG G CAAGAGCU	3766	AGCUUUG GCGAAAGGCGAGUGAGGUCU CGGCUGAU	19074
2505	CGGCAAGA G CUGAGAUG	3767	CAUCUCAG GCGAAAGGCGAGUGAGGUCU UCUUGCCG	19075
2513	GCUGAGAU G UGGAAGUG	3768	CACUCCA GCGAAAGGCGAGUGAGGUCU AUCUCAGC	19076
2519	AUGUGGAA G UGGAGUGU	3769	ACAUCCA GCGAAAGGCGAGUGAGGUCU UUCCACAU	19077
2524	GAAGUGGA G UGUUCAUA	3770	UAUGAACA GCGAAAGGCGAGUGAGGUCU UCCACUUC	19078
2526	AGUGGAGU G UUCAUACA	3771	UGUAUGAA GCGAAAGGCGAGUGAGGUCU ACUCCACU	19079
2542	ACAUGAU G UGGAAGGU	3772	AGCUCCA GCGAAAGGCGAGUGAGGUCU AUCAUUGU	19080
2548	AUGUGAG G CUUGGAUG	3773	CAUCCAAG GCGAAAGGCGAGUGAGGUCU CUCCACAU	19081
2562	AUGGACCG G UACAAGUA	3774	UACUUGUA GCGAAAGGCGAGUGAGGUCU CGGUCCAU	19082
2568	CGGUACAA G UAUAUCCC	3775	GGUAUAUA GCGAAAGGCGAGUGAGGUCU UUGUACCG	19083
2583	CCUGAAC G CCACAAGG	3776	CCUUGUGG GCGAAAGGCGAGUGAGGUCU GUUUCAGG	19084
2591	GCCACAAG G CCUAGCCA	3777	UGGCUVAGG GCGAAAGGCGAGUGAGGUCU CUUGUGGC	19085

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2596	AAGGCCUA G CCAAGAU	3778	GAUCUUGG GCCGAAAGGCGAGUGAGGUCU UAGGCCU	19086
2614	UUCAGAAA G CUCUAAG	3779	CUUAUGAG GCCGAAAGGCGAGUGAGGUCU UUCUGAA	19087
2629	AGGAAGGA G UGUGCGU	3780	ACCGACA GCCGAAAGGCGAGUGAGGUCU UCCUUCU	19088
2631	GAAGAGU G UGCGGUCU	3781	AGACGCA GCCGAAAGGCGAGUGAGGUCU ACUCUUC	19089
2633	AGAGUGU G CGGUCUAC	3782	GUAGACCG GCCGAAAGGCGAGUGAGGUCU ACACUCU	19090
2636	AGUGGCG G UCACGAU	3783	AUCGAGA GCCGAAAGGCGAGUGAGGUCU CGCACACU	19091
2647	UACGAUCA G UUCACGA	3784	UCUGAAA GCCGAAAGGCGAGUGAGGUCU UGAUCGUA	19092
2661	AGACUGGA G CAUCAAU	3785	AUUUAUG GCCGAAAGGCGAGUGAGGUCU UCCAGUCU	19093
2670	CAUCAAU G UGGGAAGC	3786	GCUCCCA GCCGAAAGGCGAGUGAGGUCU AUUGAUG	19094
2677	UGUGGAA G CAGUGAAG	3787	CUUCACUG GCCGAAAGGCGAGUGAGGUCU UUCCCACA	19095
2680	GGGAAGCA G UGAAGGAC	3788	GUCUUCA GCCGAAAGGCGAGUGAGGUCU UGCUUCC	19096
2691	AAGGACGA G CUGAACAC	3789	GUGUUCAG GCCGAAAGGCGAGUGAGGUCU UCGUCCU	19097
2717	GGGAUUG G UGUGGACC	3790	GUCCACA GCCGAAAGGCGAGUGAGGUCU CAUUCUC	19098
2719	AGAAUGU G UGACCUU	3791	AAGGUCA GCCGAAAGGCGAGUGAGGUCU ACCAUUC	19099
2729	GGACCUA G UGUGGUG	3792	CCACGCA GCCGAAAGGCGAGUGAGGUCU UAAAGUCC	19100
2731	ACCUAUG G UCGUGGU	3793	AACACGA GCCGAAAGGCGAGUGAGGUCU ACUAAGU	19101
2734	UUAUGUC G UGGUUGAG	3794	CUCAACA GCCGAAAGGCGAGUGAGGUCU GACACUA	19102
2737	GUGUCGUG G UUGAGAA	3795	UUUCUAA GCCGAAAGGCGAGUGAGGUCU CACGACAC	19103
2757	AGGGAAU G UCAAGUC	3796	GACUUGA GCCGAAAGGCGAGUGAGGUCU AUUCCUC	19104
2763	AUGUACA G UCAACACC	3797	GGUGUGA GCCGAAAGGCGAGUGAGGUCU UUGUACAU	19105
2767	ACAAGUA G CACUAAA	3798	UUUAGUG GCCGAAAGGCGAGUGAGGUCU UGACUUG	19106
2777	ACCUAAC G CCUCACCG	3799	CGUGAGG GCCGAAAGGCGAGUGAGGUCU GUUUAGU	19107
2785	GCUCACC G CCACACG	3800	CGUGUGG GCCGAAAGGCGAGUGAGGUCU GGUGAGC	19108
2810	GGAAUUG G CUGGAAG	3801	CUUCCAG GCCGAAAGGCGAGUGAGGUCU CAUUUCC	19109
2818	GUUGAAG G CUGGGGA	3802	UCCCCAG GCCGAAAGGCGAGUGAGGUCU CUUCCAG	19110
2831	GGAAAGA G UAUUUUU	3803	AUAAAUA GCCGAAAGGCGAGUGAGGUCU UCUUCCC	19111
2842	UUUUUUU G CACAGAA	3804	UUCUGUG GCCGAAAGGCGAGUGAGGUCU AAUAAAA	19112
2854	CAGAACU G CCAACAAC	3805	GUUGUUG GCCGAAAGGCGAGUGAGGUCU GAGUUCU	19113
2859	ACACUUU G UGGUUGAU	3806	AUCAACA GCCGAAAGGCGAGUGAGGUCU AAAGGUG	19114
2872	CCUUUGU G UUGAUGU	3807	ACCAUCA GCCGAAAGGCGAGUGAGGUCU CACAAAG	19115
2879	GGUGAUG G UCCGAGA	3808	UCUCCGA GCCGAAAGGCGAGUGAGGUCU CAUCAAC	19116
2897	CAAGGAU G UCCGACU	3809	GAGUCGA GCCGAAAGGCGAGUGAGGUCU AUUCCUUG	19117
2912	UCAGAAU G CGCUUGA	3810	UCCAAGC GCCGAAAGGCGAGUGAGGUCU GAUUCUG	19118
2914	AGAAUCG G CUUGAAU	3811	AUCCAAG GCCGAAAGGCGAGUGAGGUCU GCGAUUC	19119
2924	UUGAAUA G CUUAGAAG	3812	CUUCUAA GCCGAAAGGCGAGUGAGGUCU UAUUCCA	19120
2932	GUUAGAA G UGAGGAU	3813	AUCUCCA GCCGAAAGGCGAGUGAGGUCU UUCUAAG	19121
2951	UUGAUUG G UGUACCA	3814	UGGUGAG GCCGAAAGGCGAGUGAGGUCU CAAAUCCA	19122
2960	UUCACCA G CACUCGGA	3815	UCCGAGU GCCGAAAGGCGAGUGAGGUCU UGGUGAGA	19123
2970	ACUCGGAU G UUCUGAA	3816	UUCAGGA GCCGAAAGGCGAGUGAGGUCU AUCCGAGU	19124
2980	UCCUGAAG G UCAGAGAG	3817	CUCUCUG GCCGAAAGGCGAGUGAGGUCU CUUCAGGA	19125

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2990	CAGAGAGA G CAACACAA	3818	UUUGUUG GCCGAAAGCGAGUGAGGUCU UCUCUCUG	19126
3005	AACUGAAU G UGACUCCA	3819	UCGAGUCA GCCGAAAGCGAGUGAGGUCU AUUCAGUU	19127
3028	UUGGAACG G CUGUCAAG	3820	CUUGACAG GCCGAAAGCGAGUGAGGUCU CGUOCCAA	19128
3031	GAACGGCU G UCAAGAAC	3821	GUUCUUGA GCCGAAAGCGAGUGAGGUCU AGCGGUUC	19129
3046	ACAACUUG G CGAUCCAC	3822	GUGGAUCG GCCGAAAGCGAGUGAGGUCU CAAGUUGU	19130
3056	GAUCCACA G UGACCCUG	3823	ACAGGUCA GCCGAAAGCGAGUGAGGUCU UGUGGAUC	19131
3063	AGUGACTU G UCCUAUUG	3824	CAAUAGGA GCCGAAAGCGAGUGAGGUCU AGGUCACU	19132
3080	GAUUGAAA G CAGGCUCA	3825	UGAGCCUG GCCGAAAGCGAGUGAGGUCU UUUCAUUC	19133
3084	GAAGGACG G CUCAUAUG	3826	UCAUUGAG GCCGAAAGCGAGUGAGGUCU CUGCUUUC	19134
3096	AAUGAUAC G UGGAAGCU	3827	AGCUUCCA GCCGAAAGCGAGUGAGGUCU GUADCAUU	19135
3102	ACGUGGAA G CUUGAAAG	3828	CUUUCAG GCCGAAAGCGAGUGAGGUCU UUCCACGU	19136
3112	UUGAAAGG G CAGUUCUG	3829	CAGAACUG GCCGAAAGCGAGUGAGGUCU CCUUUCAA	19137
3115	AAAGGCA G UUCUGGUU	3830	ACCCAGAA GCCGAAAGCGAGUGAGGUCU UGCCCUUU	19138
3122	AGUUCUGG G UGAAGUCA	3831	UGACTUCA GCCGAAAGCGAGUGAGGUCU CCAGAACU	19139
3127	UGGUGGAA G UCAAAUCA	3832	UGAUUUGA GCCGAAAGCGAGUGAGGUCU UUCACCCA	19140
3137	CAAUUCAU G UACGUGGC	3833	GCCACGUA GCCGAAAGCGAGUGAGGUCU AUGAUUUG	19141
3141	UCAUGUAC G UGGCCUGA	3834	UCAGGCCA GCCGAAAGCGAGUGAGGUCU GUACAUGA	19142
3144	UGUACUG G CCUGAGAC	3835	GUUCACAG GCCGAAAGCGAGUGAGGUCU CACGUACA	19143
3153	CCUGAGAC G CAUACCUU	3836	AAGUUAUG GCCGAAAGCGAGUGAGGUCU GUCUCAGG	19144
3162	CAUACCUU G UGGGGCGA	3837	UCGCCCCA GCCGAAAGCGAGUGAGGUCU AAGUUAUG	19145
3167	CUUGUGGG G CGAUGGAA	3838	UUCACUUG GCCGAAAGCGAGUGAGGUCU CCCACAAG	19146
3185	CCUUGAGA G UGACUUGA	3839	UCAAGUCA GCCGAAAGCGAGUGAGGUCU UCUCAAGG	19147
3202	UAUUAACA G UCACACUG	3840	CAGUGUGA GCCGAAAGCGAGUGAGGUCU UGGUAUUA	19148
3211	UCACACUG G CGGGACCA	3841	UGGUCCCG GCCGAAAGCGAGUGAGGUCU CAGUGUGA	19149
3224	ACCACGAA G CAUUCACA	3842	UGUGAUUG GCCGAAAGCGAGUGAGGUCU UUCGUGGU	19150
3246	AGACCUUG G UACAAGAC	3843	GUUUUGUA GCCGAAAGCGAGUGAGGUCU CCAGGUCU	19151
3266	AAACCAAG G CCCAUGGG	3844	CCCAUGGG GCCGAAAGCGAGUGAGGUCU CCUGGUUU	19152
3281	GGACGAAG G CCGGGUAG	3845	CUACCCCG GCCGAAAGCGAGUGAGGUCU CUUCGUCC	19153
3286	AAGGCCGG G UAGAGAUU	3846	AUUCUUA GCCGAAAGCGAGUGAGGUCU CCGGCCUU	19154
3308	CGAUUACU G CCCAGGAA	3847	UUCUUGGG GCCGAAAGCGAGUGAGGUCU AGUAAUCG	19155
3322	GAACUACG G UCACCCUG	3848	CAGGGUGA GCCGAAAGCGAGUGAGGUCU CGUAGUUC	19156
3332	CACCCUGA G UGAGAGCU	3849	AGUUCUCA GCCGAAAGCGAGUGAGGUCU UCAGGGUG	19157
3338	GAGUGAGA G CUGCGGAC	3850	GUCCGCAG GCCGAAAGCGAGUGAGGUCU UCUCACUC	19158
3341	UGAGAGCU G CGGACACC	3851	GGUGUCCG GCCGAAAGCGAGUGAGGUCU AGCUCUCA	19159
3350	CGGACACC G UGGACCCUG	3852	CAGGUCCA GCCGAAAGCGAGUGAGGUCU GGUGUCCG	19160
3358	GUGGACCU G CCACUCCG	3853	GCAGUGGG GCCGAAAGCGAGUGAGGUCU AGGUCCAC	19161
3365	UGCCACUC G CACCACCA	3854	UGUGUGGU GCCGAAAGCGAGUGAGGUCU GAGUGGCA	19162
3380	CACAGAGA G CGGAAGU	3855	ACUUUCCG GCCGAAAGCGAGUGAGGUCU UCUCUGUG	19163
3387	AGCGGAAA G UUGAUAAC	3856	GUUAUCAA GCCGAAAGCGAGUGAGGUCU UUUCCGCU	19164
3402	ACAGAUUG G UGCUGCAG	3857	CUGCAGCA GCCGAAAGCGAGUGAGGUCU CAAUCUGU	19165

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3404	AGAUUGGU G CUGCAGGA	3858	UCCUGCAG GCCGAAGGCGAGUGAGGUCU ACCAAUCU	19166
3407	UUGGUGCU G CAGGAGCU	3859	AGCUCCUG GCCGAAGGCGAGUGAGGUCU AGCACCAA	19167
3413	CUGCAGGA G CUGCACCUC	3860	AGGUGCAG GCCGAAGGCGAGUGAGGUCU UCCUGCAG	19168
3416	CAGGAGCU G CACCUUAC	3861	GUAGGUG GCCGAAGGCGAGUGAGGUCU AGCUCCUG	19169
3432	CCACCACU G CGCUACCA	3862	UGGUAGCG GCCGAAGGCGAGUGAGGUCU AGUGGUGG	19170
3434	ACCACUGC G CUACCAA	3863	UUUGGUAG GCCGAAGGCGAGUGAGGUCU GCAGUGGU	19171
3449	AACUGACA G CGGUGUU	3864	AACAGCCG GCCGAAGGCGAGUGAGGUCU UGUCAGUU	19172
3452	UGACAGCG G CUGUUGGU	3865	ACCAACAG GCCGAAGGCGAGUGAGGUCU CGCUGUCA	19173
3455	CAGCGGCU G UUGGUUUG	3866	CAUACCAA GCCGAAGGCGAGUGAGGUCU AGCCGUGU	19174
3459	GGGUGUG G UAGGUUAG	3867	AUACCAUA GCCGAAGGCGAGUGAGGUCU CAACAGCC	19175
3464	UUGGUUUG G UAGGUGA	3868	UCUCCAUU GCCGAAGGCGAGUGAGGUCU CAUACCAA	19176
3505	AGACCCUC G UGCAGUCA	3869	UGACUGCA GCCGAAGGCGAGUGAGGUCU GAGGUGUC	19177
3507	ACCUUGU G CAGUCACA	3870	UGUGACUG GCCGAAGGCGAGUGAGGUCU ACGAGGUG	19178
3510	CUGUGCA G UCACAAGU	3871	ACUUGUGA GCCGAAGGCGAGUGAGGUCU UGCACGAG	19179
3517	AGUCACAA G UGAAUGCU	3872	AGCAUUCA GCCGAAGGCGAGUGAGGUCU UUGUGACU	19180
3523	AAGUGAAU G CUUAUAAU	3873	AUUUAUAG GCCGAAGGCGAGUGAGGUCU AUUCACUU	19181
3532	CUUAUAAU G CUGAUUUG	3874	CAUAUACG GCCGAAGGCGAGUGAGGUCU AUUAUAAU	19182
3555	CCUUUUA G UUGGGCCU	3875	AGGCCCAA GCCGAAGGCGAGUGAGGUCU UGAAAAGG	19183
3560	UCAGUUGG G CUUUCUGG	3876	CCAGAAGG GCCGAAGGCGAGUGAGGUCU CCAACUGA	19184
3568	GCUCUCUG G UCGUGUUC	3877	GAACACGA GCCGAAGGCGAGUGAGGUCU CAGAAGGC	19185
3571	UUCUGGUC G UGUUCUUG	3878	CAAGHACA GCCGAAGGCGAGUGAGGUCU GACCAGAA	19186
3573	CUGGUCGU G UUCUUGGC	3879	GCCAAAGG GCCGAAGGCGAGUGAGGUCU ACGACCAG	19187
3580	UGUUCUUG G CCACCCAG	3880	CUGGUGGG GCCGAAGGCGAGUGAGGUCU CAAGAACA	19188
3592	CCCAGGAG G UCCUUCGC	3881	GCGAAGGA GCCGAAGGCGAGUGAGGUCU CUCCUGGG	19189
3599	GGUCCUUC G CAAGAGGU	3882	ACCUUUG GCCGAAGGCGAGUGAGGUCU GAAAGGAC	19190
3606	CGCAAGAG G UGCACAGC	3883	GCUGUCCA GCCGAAGGCGAGUGAGGUCU CUCUUGCG	19191
3613	GUUGGACA G CCAAGAUC	3884	GAUCUUGG GCCGAAGGCGAGUGAGGUCU UGUCCACC	19192
3623	CAAGAUA G CAUGCCAG	3885	CUGGCAUG GCCGAAGGCGAGUGAGGUCU UGAUCUUG	19193
3627	AUCAGCAU G CCAGCUAU	3886	AUAGCUGG GCCGAAGGCGAGUGAGGUCU AUGCTUGAU	19194
3631	GCAUGCCA G CUUAUCUG	3887	CAGUAUAG GCCGAAGGCGAGUGAGGUCU UGGCAUGC	19195
3643	UACUGAUU G CUCUGCUA	3888	UAGCAGAG GCCGAAGGCGAGUGAGGUCU AAUCAGUA	19196
3648	AUUGUCUC G CUAGUCCU	3889	AGBACUAG GCCGAAGGCGAGUGAGGUCU AGAGCAAU	19197
3652	UUGUCUA G UCUUGGUG	3890	CACCAAGG GCCGAAGGCGAGUGAGGUCU UAGCAGAG	19198
3658	UAGUCCUG G UGUUUGGG	3891	CCCAACA GCCGAAGGCGAGUGAGGUCU CAGGACUA	19199
3660	GUCCUGU G UUUUGGGG	3892	CCCCCAA GCCGAAGGCGAGUGAGGUCU ACCAGGAC	19200
3668	GUUUGGG G CAUUAUU	3893	AAGUAUUG GCCGAAGGCGAGUGAGGUCU CCCCRAAC	19201
3685	ACACUGAU G UGUUACGC	3894	GCUGAACA GCCGAAGGCGAGUGAGGUCU AUCAGUGU	19202
3687	ACUGAUGU G UUAGGCUA	3895	UAGCGUAA GCCGAAGGCGAGUGAGGUCU ACAUCAGU	19203
3692	UGUGUUAU G CUUAUGUA	3896	UGACAUAG GCCGAAGGCGAGUGAGGUCU GUAACACA	19204
3697	UACGCUAU G UCAUCUUG	3897	CAAGAUA GCCGAAGGCGAGUGAGGUCU AUAGCGUA	19205

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3706	UACUCUUG G UGGGGCA	3898	UGCCCCA GCCGAAAGCGAGUGAGGUCU CAAGAUGA	19206
3712	UGUGGGG G CAGCUUUC	3899	GAAAGCUG GCCGAAAGCGAGUGAGGUCU CCCACCA	19207
3715	UGGGGGCA G CUUUCGCA	3900	UGCGAAG GCCGAAAGCGAGUGAGGUCU UGCCCCCA	19208
3721	CAGCUUUC G CAGAAUCU	3901	AGAUCUG GCCGAAAGCGAGUGAGGUCU GAAAGCUG	19209
3745	GAGGAGC G UGUUACAC	3902	GUGUACCA GCCGAAAGCGAGUGAGGUCU GUCUCCUC	19210
3748	GAGACGUG G UACACUUG	3903	CAAGUGUA GCCGAAAGCGAGUGAGGUCU CACGUCUC	19211
3757	UACACUUG G CGCUCAUG	3904	CAUGAGCG GCCGAAAGCGAGUGAGGUCU CAAGUGUA	19212
3759	CACUUGGC G CUCAUGGC	3905	GCCAUAG GCCGAAAGCGAGUGAGGUCU GCCAAGUG	19213
3766	CGCUCAUG G CGACCUUC	3906	GAAGGUCG GCCGAAAGCGAGUGAGGUCU CAUGAGCG	19214
3787	UACAACCA G UGUUUAUG	3907	CAUAAACA GCCGAAAGCGAGUGAGGUCU UGUUUGUA	19215
3789	CAACCAAG G UUAUGGU	3908	ACCAUAAA GCCGAAAGCGAGUGAGGUCU ACUGGUUG	19216
3796	UGUUUAUG G UGGCAUCG	3909	CGAUGCCA GCCGAAAGCGAGUGAGGUCU CAUAAACA	19217
3799	UUAUGGUG G CAUCGUUU	3910	AAACGAUG GCCGAAAGCGAGUGAGGUCU CACCAUAA	19218
3804	GUGGCAUC G UUCUCAAA	3911	UUGAGAAA GCCGAAAGCGAGUGAGGUCU GAUGCCAC	19219
3814	UUCUCAAA G CGAGAUGG	3912	CAUCUCUG GCCGAAAGCGAGUGAGGUCU UUUGAGAA	19220
3843	AACAUUUU G UUGAUGUU	3913	AACAUCAA GCCGAAAGCGAGUGAGGUCU AAAAUGUU	19221
3849	UUGUUGAU G UUGGCGGC	3914	GCCGCCAA GCCGAAAGCGAGUGAGGUCU AUCAACAA	19222
3853	UGAUGUUG G CGGCUUUU	3915	AACAGCCG GCCGAAAGCGAGUGAGGUCU CAACAUCA	19223
3856	UGUUGGCG G CUGUUUUC	3916	GAACAACG GCCGAAAGCGAGUGAGGUCU CGCCAACA	19224
3859	UGGCGGCU G UUUUUUUU	3917	AAAGAAA GCCGAAAGCGAGUGAGGUCU AGCCGCCA	19225
3874	UUCAAAUG G CUUAUCAC	3918	GUGAUAAG GCCGAAAGCGAGUGAGGUCU CAUUUGAA	19226
3886	AUCACGAU G CCGGCCAA	3919	UUGGCGGG GCCGAAAGCGAGUGAGGUCU AUCGUGAU	19227
3890	CGAUGCCC G CCAAAUUC	3920	GAUUUUG GCCGAAAGCGAGUGAGGUCU GGGCAUCG	19228
3900	CAAAUUCU G CUCUGGGA	3921	UCCAGAG GCCGAAAGCGAGUGAGGUCU AGAAUUUG	19229
3919	UCCUGAU G UGUUGAUU	3922	AUACAACA GCCGAAAGCGAGUGAGGUCU AUCAGGGA	19230
3921	CCUGAUGU G UUGAAUUC	3923	GAUUUCA GCGGAAAGCGAGUGAGGUCU ACAUCAGG	19231
3934	AUUCACUG G CGGUAGCU	3924	AGCUACCG GCCGAAAGCGAGUGAGGUCU CAGUGAAU	19232
3937	CACUGGCG G UAGCUUGG	3925	CCAAGCUA GCCGAAAGCGAGUGAGGUCU CGCCAGUG	19233
3940	UGGCGGUA G CUUGGAUG	3926	CAUCCAAG GCCGAAAGCGAGUGAGGUCU UACCGCCA	19234
3958	UACUGAGA G CCAUAACA	3927	UGUUUUGG GCCGAAAGCGAGUGAGGUCU UCUCAGUA	19235
3985	CAUCAAC G UGUUUGUU	3928	AACAACA GCCGAAAGCGAGUGAGGUCU GUUUGAUG	19236
3988	CAAAAGUG G UUGUUCCG	3929	CGGAACA GCCGAAAGCGAGUGAGGUCU CAGUUUUG	19237
3991	ACGUGGUU G UUCGCGUG	3930	CAGCGGA GCCGAAAGCGAGUGAGGUCU AACCACGU	19238
3996	GUUGUUC G CUGUAGC	3931	GUAGCAG GCCGAAAGCGAGUGAGGUCU GGAACAAC	19239
3999	GUUCGCU G CUAGCCCU	3932	AGGCUAG GCCGAAAGCGAGUGAGGUCU AGCGGAAC	19240
4003	CGUCGCUA G CCUCUGUA	3933	UAGCAGG GCCGAAAGCGAGUGAGGUCU UAGCAGCG	19241
4008	CUAGCCCU G CUACACAC	3934	GGUGUAG GCCGAAAGCGAGUGAGGUCU AGGGCUAG	19242
4020	ACACCCCG G CUGAGAUG	3935	CAUCUCAG GCCGAAAGCGAGUGAGGUCU CCGGGUGU	19243
4028	GCUGAGAU G CUUGAAUC	3936	GAUCAAAG GCCGAAAGCGAGUGAGGUCU AUCUCAGC	19244
4042	AUCUGGAU G UGUACAGG	3937	CCUGUACA GCCGAAAGCGAGUGAGGUCU AUCCAGAU	19245

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4044	CUGGAUGU G UACAGGAU	3938	AUCCUGUA GCCGAAAGGCGAGUGAGGUCU ACAUCCAG	19246
4056	AGGAUACU G CUGUUGAU	3939	AUCAACAG GCCGAAAGGCGAGUGAGGUCU AGUAUCCU	19247
4059	UUAUGUCU G UUGAUGGU	3940	ACCAUCA GCCGAAAGGCGAGUGAGGUCU AGCAGUAU	19248
4066	UUGUAUG G UCGGAUA	3941	UAUUCGA GCCGAAAGGCGAGUGAGGUCU CAUCAACA	19249
4076	CGGAUAG G CAGUUGA	3942	UCAAGCUG GCCGAAAGGCGAGUGAGGUCU CUUUCG	19250
4079	AAUAGGCA G CUUGAUCA	3943	UGAUCAG GCCGAAAGGCGAGUGAGGUCU UGCCUAU	19251
4100	GAAGAGGA G UGCAGCUG	3944	CAGUCGA GCCGAAAGGCGAGUGAGGUCU UCCUCUUC	19252
4102	AGAGGAGU G CAGCUGCA	3945	UGCAGCUG GCCGAAAGGCGAGUGAGGUCU ACUCCUCU	19253
4105	GGAGUGCA G CUGCAAAA	3946	UUUUCAG GCCGAAAGGCGAGUGAGGUCU UGCACUCC	19254
4108	GUCAGCUC G CAAAAAAG	3947	CUUUUUG GCCGAAAGGCGAGUGAGGUCU AGCUGCAC	19255
4123	AGAAAGGA G CAAGUCUG	3948	CAGACUUG GCCGAAAGGCGAGUGAGGUCU UCCUUUCU	19256
4127	AGAGCAA G UCUGCUAU	3949	AUAGCAGA GCCGAAAGGCGAGUGAGGUCU UUGCUCCU	19257
4131	GCAAGUCU G CUUUGCUU	3950	AAGCAUAG GCCGAAAGGCGAGUGAGGUCU AGACUUGC	19258
4136	UCUGCUAU G CUUGGCUC	3951	GAGCCAAG GCCGAAAGGCGAGUGAGGUCU AUAGCAGA	19259
4141	UADGCUUG G CUUAGCC	3952	GGCUAGAG GCCGAAAGGCGAGUGAGGUCU CAAGCAUA	19260
4147	UGGUCUUA G CCUACA	3953	UGUUGAG GCCGAAAGGCGAGUGAGGUCU UAGAGCCA	19261
4180	UGAUCCUU G CUGCUGGA	3954	UCCAGCAG GCCGAAAGGCGAGUGAGGUCU AAGGAUCA	19262
4183	UCCUUGCU G CUGGACUG	3955	CAGUCCAG GCCGAAAGGCGAGUGAGGUCU AGCAAGGA	19263
4195	GACUGAU G CAGUGAU	3956	AUCAUAG GCCGAAAGGCGAGUGAGGUCU AAUCAGUC	19264
4199	GAUUGAU G UGAUCCCA	3957	UGGGAUCA GCCGAAAGGCGAGUGAGGUCU AUGCAUUC	19265
4211	UCCCAACC G UAAACGGC	3958	CGCGUUA GCCGAAAGGCGAGUGAGGUCU GGUUGGGA	19266
4217	CCGUAAC G CGAUGGC	3959	GCCAUCG GCCGAAAGGCGAGUGAGGUCU GUUUAACG	19267
4224	CGCGAUG G CCGCAAC	3960	GUUGCGG GCCGAAAGGCGAGUGAGGUCU CAUCCGCG	19268
4228	GAUGGCC G CAACUGAA	3961	UUCAGUUG GCCGAAAGGCGAGUGAGGUCU GGGCCCAUC	19269
4237	CAACUGAA G UGAUGACA	3962	UGUCAUCA GCCGAAAGGCGAGUGAGGUCU UUCAGUUG	19270
4246	UGAUGACA G CUGUCGCG	3963	GCCGACAG GCCGAAAGGCGAGUGAGGUCU UGUCAUCA	19271
4249	UGACAGCU G UCGGCCUA	3964	UAGGCCGA GCCGAAAGGCGAGUGAGGUCU AGCUGUCA	19272
4253	AGCUGUC G CUUAUGU	3965	ACAUUAG GCCGAAAGGCGAGUGAGGUCU CGACAGCU	19273
4260	GGCUAAU G UUUGCCAU	3966	AUGGCAA GCCGAAAGGCGAGUGAGGUCU AUUAGGCC	19274
4264	UAUUGUU G CCAUCGUC	3967	GACGAUG GCCGAAAGGCGAGUGAGGUCU AAACAUA	19275
4270	UUGCCAUC G UCGAGGG	3968	CCUCCGA GCCGAAAGGCGAGUGAGGUCU GAUUGCAA	19276
4278	GUCGAGG G CUGGCAGA	3969	UCUGCCAG GCCGAAAGGCGAGUGAGGUCU CCUCCGAC	19277
4282	GAGGCGU G CAGAGCUU	3970	AAGCUCUG GCCGAAAGGCGAGUGAGGUCU CAGCCUUC	19278
4287	CUGGCAGA G CUUGACAU	3971	AUGUCAAG GCCGAAAGGCGAGUGAGGUCU UCUGCCAG	19279
4306	ACUCCAUG G CCAUUCUA	3972	UGGAUUG GCCGAAAGGCGAGUGAGGUCU CAUGGAGU	19280
4324	UGACUAUC G CGGGGCUU	3973	GAGCCCG GCCGAAAGGCGAGUGAGGUCU GAUAGUCA	19281
4329	AUCGCGG G CUUAUGU	3974	AACAUGAG GCCGAAAGGCGAGUGAGGUCU CCCGCCAU	19282
4335	GGGCUCAU G UUUGCUG	3975	GCAGCAA GCCGAAAGGCGAGUGAGGUCU AUGAGCCC	19283
4339	UCAUGUU G CUGCUUUC	3976	GAAGCAG GCCGAAAGGCGAGUGAGGUCU AAACAUGA	19284
4342	UGUUGCU G CUUUCGUG	3977	CACGAAAG GCCGAAAGGCGAGUGAGGUCU AGCAACA	19285

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4348	CUGCUUUC G UGAUUUCU	3978	AGAAAUCA GCCGAAAGCGAGUGAGGUCU GAAAGCAG	19286
4374	ACAGAUU G UGAUUUGA	3979	UCAAUCCA GCCGAAAGCGAGUGAGGUCU AUAUCUGU	19287
4390	AGAGAACG G CGGACAUU	3980	AAUGUCCG GCCGAAAGCGAGUGAGGUCU CGUUCUCU	19288
4409	CUGGAAA G UGAUGCAG	3981	CUGCAUCA GCCGAAAGCGAGUGAGGUCU UUUCC'GAG	19289
4414	AAAGUGAU G CAGAAAUU	3982	AAUUUCUG GCCGAAAGCGAGUGAGGUCU AUCACUUU	19290
4427	AAUUAACG G CUCGAGCG	3983	CGCUCGAG GCCGAAAGCGAGUGAGGUCU CUGUAUUU	19291
4433	AGGUCGGA G CGAAAGAG	3984	CUCUUUCG GCCGAAAGCGAGUGAGGUCU UCGAGCCU	19292
4441	GCGAAGA G UUGAUGUG	3985	CACAUCAA GCCGAAAGCGAGUGAGGUCU UCUTU'CGC	19293
4447	GAGUUAU G UGCGGCUU	3986	AAGCCGCA GCCGAAAGCGAGUGAGGUCU AUCNAUCU	19294
4449	GUUGAUGU G CGGCUUGA	3987	UCAAGCCG GCCGAAAGCGAGUGAGGUCU ACAUCAAC	19295
4452	GAUGUCG G CUGUAUGA	3988	UCAUCAAG GCCGAAAGCGAGUGAGGUCU CGCACAUU	19296
4476	AACUCCA G CUCAUGAA	3989	UUCAUAGG GCCGAAAGCGAGUGAGGUCU UGGAAGUU	19297
4495	AUCCAGGA G CACCUUGG	3990	CCAAGGUG GCCGAAAGCGAGUGAGGUCU UCCUGGAU	19298
4515	AUAUGAU G CUCAGAAU	3991	AUUCUGAG GCCGAAAGCGAGUGAGGUCU AUCCAUAU	19299
4525	UCAGAAUG G UCUGUCUC	3992	GAGACAGA GCCGAAAGCGAGUGAGGUCU CAUUCUGA	19300
4529	AAUGGUCU G UCUCGCGA	3993	UCGCGAGA GCCGAAAGCGAGUGAGGUCU AGACCAUU	19301
4534	UCUGUCUC G CGAUUAGU	3994	ACUAUUCG GCCGAAAGCGAGUGAGGUCU GAGACAGA	19302
4541	CGGAUUA G UGCGUACA	3995	UGUACGCA GCCGAAAGCGAGUGAGGUCU UUAUCGCG	19303
4543	CGAUUAGU G CGUACACC	3996	GGUUGACG GCCGAAAGCGAGUGAGGUCU ACUAUUCG	19304
4545	AUAGUUG G UACACCCC	3997	GGGUGUUA GCCGAAAGCGAGUGAGGUCU GCACUAAU	19305
4558	CCCCUUG G CAUUCUUG	3998	CAAGAUGG GCCGAAAGCGAGUGAGGUCU CCAGGGGG	19306
4566	GCAUUCU G CCCUCAGU	3999	ACUGAGGG GCCGAAAGCGAGUGAGGUCU AAGAUUGC	19307
4573	UGCCUUA G UAGUUGGA	4000	UCCAACUA GCCGAAAGCGAGUGAGGUCU UGAGGGCA	19308
4576	CCUCAGUA G UUGGAUUU	4001	AAAUCCAA GCCGAAAGCGAGUGAGGUCU UACUGAGG	19309
4616	GAGAGGAG G CGUGUUGU	4002	ACAAACAG GCCGAAAGCGAGUGAGGUCU CUCCUCUC	19310
4618	GAGGAGG G UGUUGUGG	4003	CCACAACA GCCGAAAGCGAGUGAGGUCU GCCUCCUC	19311
4620	GGAGGCGU G UGUUGGGA	4004	UCCACACA GCCGAAAGCGAGUGAGGUCU ACGCUCUC	19312
4623	GGCGUGU G UGGGACAC	4005	GUUCCCA GCCGAAAGCGAGUGAGGUCU AACACGCC	19313
4647	CCAAAGGA G UACAAAAA	4006	UUUUUGUA GCCGAAAGCGAGUGAGGUCU UCCUUUGG	19314
4673	GACCACCG G CGUCUACA	4007	UGUAGACG GCCGAAAGCGAGUGAGGUCU CGGUGGUC	19315
4675	CCACCGGC G UCUACAGG	4008	CCUGUAGA GCCGAAAGCGAGUGAGGUCU GCCGUGGG	19316
4694	CAUGACUC G UGGGCGUC	4009	GCAAGCCA GCCGAAAGCGAGUGAGGUCU GAGUCAUG	19317
4698	ACUCGUGG G CUCUCGCG	4010	CCGAGCAG GCCGAAAGCGAGUGAGGUCU CCACGAGU	19318
4701	CGUGGCGU G CUCGGCAG	4011	CUGCCGAG GCCGAAAGCGAGUGAGGUCU AGCCACAG	19319
4706	GCUGCUCG G CAGUUAUC	4012	GAUAACUG GCCGAAAGCGAGUGAGGUCU CGAGCAGC	19320
4709	GCUCGCGA G UUAUCAAG	4013	CUUGAUAA GCCGAAAGCGAGUGAGGUCU UGCGGAGC	19321
4717	GUUAUCAA G CAGGAGCG	4014	CGCUCUUG GCCGAAAGCGAGUGAGGUCU UUGAUAA	19322
4723	AAGCAGGA G CGGGCGUG	4015	CAGCCCGG GCCGAAAGCGAGUGAGGUCU UCCUGCUU	19323
4727	AGGAGCGG G CGUGAUGG	4016	CCAUCACG GCCGAAAGCGAGUGAGGUCU CCGUCCUU	19324
4729	GAGCGGCG G UGAUGGUU	4017	AACCAUCA GCCGAAAGCGAGUGAGGUCU GCCCGCUC	19325

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4735	GCGUGAG G UUGAAGGU	4018	ACCUUCAA GCCGAAAGGCGAGUGAGGUU CAUCACGC	19326
4742	GGUUGAG G UGUUUCC	4019	GGAACA GCGGAAAGGCGAGUGAGGUU CUUCAACC	19327
4744	UUGAAGGU G UUUUCCAC	4020	GUGGAAA GCCGAAAGGCGAGUGAGGUU ACCUCAA	19328
4761	ACCCUUU G CAUACAAC	4021	GUUGAUG GCCGAAAGGCGAGUGAGGUU CAAAGGGU	19329
4777	CAAAAGG G CCGUUUG	4022	CHAAAGG GCGGAAAGGCGAGUGAGGUU UCCUUUUG	19330
4780	AAGGAGC G CUUUGAUG	4023	CAUCAAG GCCGAAAGGCGAGUGAGGUU GGCUCUU	19331
4790	UUUGAUG G CGGAGAG	4024	CCUCUCG GCCGAAAGGCGAGUGAGGUU UCAUCAAA	19332
4799	CGGAGAG G CCGCCUGG	4025	CCAGGCG GCCGAAAGGCGAGUGAGGUU CCUCUCG	19333
4802	AGAGGCC G CCUGACC	4026	GGUCCAG GCCGAAAGGCGAGUGAGGUU GGCCUCU	19334
4820	AUACUGG G CAGUGUA	4027	UGACACU GCCGAAAGGCGAGUGAGGUU CCCAGUAU	19335
4823	CUGGGCA G UGUCAAG	4028	CCUUGACA GCCGAAAGGCGAGUGAGGUU UGCCCCAG	19336
4825	GGGCGAG G UCAAGGAG	4029	CUCCUGA GCCGAAAGGCGAGUGAGGUU ACUGCCCC	19337
4844	UCGACUU G UUACGGAG	4030	CUCCGUA GCCGAAAGGCGAGUGAGGUU AAAGUCGA	19338
4866	UGGAAUU G CAGCACA	4031	UUUGUCU GCCGAAAGGCGAGUGAGGUU AAUUUCCA	19339
4869	AAAUUGA G CACAAGU	4032	CACUUGU GCCGAAAGGCGAGUGAGGUU UGCAAUUU	19340
4875	CAGCAAA G UGGAACGG	4033	CCGUUCA GCCGAAAGGCGAGUGAGGUU UUGUCUG	19341
4884	UGGAACG G CAGGAUGA	4034	UCAUCCU GCCGAAAGGCGAGUGAGGUU CCGUCCA	19342
4894	AGGAUG G UGCAGAU	4035	CAUCUGA GCCGAAAGGCGAGUGAGGUU CUCAUCCU	19343
4896	GAUGAGU G CAGAUGAU	4036	AUCAUCU GCCGAAAGGCGAGUGAGGUU ACCUCAUC	19344
4906	AGUGAUU G UGGUGGAA	4037	UUCACCA GCCGAAAGGCGAGUGAGGUU AAUCAUCU	19345
4909	UGAUUGU G UGGAACCU	4038	AGGUUCA GCCGAAAGGCGAGUGAGGUU CACAUCA	19346
4919	GGAACUG G CAAGAAG	4039	CGUUCU GCCGAAAGGCGAGUGAGGUU CAGGUUCC	19347
4927	GCAAGAC G UUAAGAAC	4040	GUUCUUA GCCGAAAGGCGAGUGAGGUU GUUCUUGC	19348
4936	UUAAGAAC G UCCAGACG	4041	CGUCUGA GCCGAAAGGCGAGUGAGGUU GUUCUUA	19349
4954	AACGAGG G UGUUCAA	4042	UUUGAUA GCCGAAAGGCGAGUGAGGUU CCGUGGU	19350
4956	CCAGGGU G UUCAAAAC	4043	GUUUUGA GCCGAAAGGCGAGUGAGGUU ACCCUGG	19351
4984	AAUCCGG G CCGUGACU	4044	AGUCACG GCCGAAAGGCGAGUGAGGUU CCGAUUU	19352
4987	UCGGGCC G UGACUUUG	4045	CAAGUCA GCCGAAAGGCGAGUGAGGUU GGCCCCGA	19353
5018	AACUAG G CUCACCAA	4046	UUGGUGA GCCGAAAGGCGAGUGAGGUU CUGAUGUU	19354
5029	CACCAUA G UGGACAAA	4047	UUUGUCA GCCGAAAGGCGAGUGAGGUU UAUUGGUG	19355
5042	CAAAACG G UGAUGUGA	4048	UCACUCA GCCGAAAGGCGAGUGAGGUU CGUUUUUG	19356
5047	ACGGUGAU G UGAUUGG	4049	CCCAUCA GCCGAAAGGCGAGUGAGGUU AUCACCGU	19357
5055	GUGAUUG G CUUUAUG	4050	CCAUAAG GCCGAAAGGCGAGUGAGGUU CCAUACAC	19358
5063	GCUUUAUG G CAUUGGAG	4051	CUCAUUG GCCGAAAGGCGAGUGAGGUU CAUAAAGC	19359
5071	GCAUUGA G UCAUAUUG	4052	CAUUAUG GCCGAAAGGCGAGUGAGGUU UCCAUUGC	19360
5079	GUCAUAU G CCCAACGG	4053	CCGUUGG GCCGAAAGGCGAGUGAGGUU AUUAUGAC	19361
5087	GCCCAAC G CUCAUACA	4054	UGUAUGG GCCGAAAGGCGAGUGAGGUU CGUUGGGC	19362
5099	AUACAUA G CGCGAUAG	4055	CUAUCGG GCCGAAAGGCGAGUGAGGUU UUAUGUAU	19363
5101	ACAUAGC G CGAUAGUG	4056	CACUAUG GCCGAAAGGCGAGUGAGGUU GCUUAUGU	19364
5107	GCGCAUA G UGCAGGGU	4057	ACCCUGA GCCGAAAGGCGAGUGAGGUU UAUCGCGC	19365

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5109	GCAUAGU G CAGGGUGA	4058	UCACCCUG GCCGAAAGGCGAGUGAGGUCU ACUAUCGC	19366
5114	AGUCGAG G UGAAGGA	4059	UCCUUUCA GCCGAAAGGCGAGUGAGGUCU CCUGCACU	19367
5130	AUGGAUGA G CCAAUCCC	4060	GGGAUUGG GCCGAAAGGCGAGUGAGGUCU UCAUCCAU	19368
5140	CAUCCCA G CCGAUUC	4061	GAUCCGG GCCGAAAGGCGAGUGAGGUCU UGGGAUUG	19369
5160	CUAGAGU G UGAGGAA	4062	UUCUCAG GCCGAAAGGCGAGUGAGGUCU AUCUCAGG	19370
5182	AGAUCAU G UACUGGAU	4063	AUCCAGUA GCCGAAAGGCGAGUGAGGUCU AGUGAUUC	19371
5201	CCAUCGG G CGCCGUA	4064	UACCGCG GCCGAAAGGCGAGUGAGGUCU CGGGAUGG	19372
5203	AUCCCGG G CCGUAAA	4065	UUUACCG GCCGAAAGGCGAGUGAGGUCU GCCGGGAU	19373
5207	CGCGCGG G UAAAACAA	4066	UUGUUUA GCCGAAAGGCGAGUGAGGUCU CGGCGCCG	19374
5226	AGGAUUCU G CCACAGAU	4067	AUCUGUG GCCGAAAGGCGAGUGAGGUCU AGAUCCU	19375
5245	UCAAAGAG G CCAUAAAC	4068	GUUAUGG GCCGAAAGGCGAGUGAGGUCU CUCUUUGA	19376
5269	UGAGAACA G CCGUGCUA	4069	UAGCACGG GCCGAAAGGCGAGUGAGGUCU UGUUCUCA	19377
5272	GAACAGCC G UGUAGCA	4070	UGCAGCA GCCGAAAGGCGAGUGAGGUCU GGCUGUUC	19378
5274	ACAGCCGU G CUAGCAC	4071	GGUGUAG GCCGAAAGGCGAGUGAGGUCU ACGGCUUG	19379
5278	CGUGCUA G CACCAACC	4072	GGUUGUG GCCGAAAGGCGAGUGAGGUCU UAGCACGG	19380
5290	CAACCAG G UUGUGGU	4073	AGCCACAA GCCGAAAGGCGAGUGAGGUCU CCUGGUUG	19381
5293	CCAGGGU G UGGUGGU	4074	AGCAGCCA GCCGAAAGGCGAGUGAGGUCU AACCCUGG	19382
5296	GGUUGUG G CUGCUGAG	4075	CUCAGCAG GCCGAAAGGCGAGUGAGGUCU CACAACCC	19383
5299	UUGUGGU G CUGAGAUG	4076	CAUCUCAG GCCGAAAGGCGAGUGAGGUCU AGCCACAA	19384
5308	CUGAGAUG G CUGAAGCA	4077	UGCUUCAG GCCGAAAGGCGAGUGAGGUCU CAUCUCAG	19385
5314	UGGCUGAA G CACUGAGA	4078	UCUCAGUG GCCGAAAGGCGAGUGAGGUCU UUCAGCCA	19386
5328	AGGAGACU G CCCAUCCG	4079	CGGAUGGG GCCGAAAGGCGAGUGAGGUCU AGUCCUCU	19387
5337	CCCAUCG G UACAGAC	4080	GUUCUGUA GCCGAAAGGCGAGUGAGGUCU CGGAUGGG	19388
5350	AGACAUC G CAGUGCC	4081	GGCAGCUG GCCGAAAGGCGAGUGAGGUCU GGAUGUCU	19389
5353	CAUCCGA G UGCCAGA	4082	UCUGGGCA GCCGAAAGGCGAGUGAGGUCU UGCGGAUG	19390
5355	UCCGCAGU G CCCAGAGA	4083	UCUCUGG GCCGAAAGGCGAGUGAGGUCU ACUGCGGA	19391
5383	AUGAGAU G UUGAUGUC	4084	GACAUCAA GCCGAAAGGCGAGUGAGGUCU AAUCUCAU	19392
5389	UUGUUGAU G UCAUGUGU	4085	ACACAUGA GCCGAAAGGCGAGUGAGGUCU AUCACAAA	19393
5394	GAUGUCAU G UGUCAUGC	4086	GCAUGACA GCCGAAAGGCGAGUGAGGUCU AUGACAUC	19394
5396	UGUCAUGU G UCAUGCUA	4087	UAGCAUGA GCCGAAAGGCGAGUGAGGUCU ACAUGACA	19395
5401	UGUGUCAU G CUACCCUC	4088	GAGGUGAG GCCGAAAGGCGAGUGAGGUCU AUGACACA	19396
5418	ACCCACAG G CUGAUGUC	4089	GACAUCAG GCCGAAAGGCGAGUGAGGUCU CUGUGGGU	19397
5424	AGGCUGAU G UCUCUCA	4090	UGAGGAGA GCCGAAAGGCGAGUGAGGUCU AUCAGCCU	19398
5437	CUCACAGG G UGCCGAAC	4091	GUUCGGCA GCCGAAAGGCGAGUGAGGUCU CCUGUGAG	19399
5439	CACAGGU G CCGAUCTA	4092	UAGUUCGG GCCGAAAGGCGAGUGAGGUCU ACCUGUG	19400
5454	UACAACU G UUCUGUAU	4093	AUCACGAA GCCGAAAGGCGAGUGAGGUCU AGGUGUGA	19401
5458	ACUGUUC G UGAUGGAU	4094	AUCAUCA GCCGAAAGGCGAGUGAGGUCU GAACAGGU	19402
5470	GAUAUGAG G CUCAUUCU	4095	GAUAUGAG GCCGAAAGGCGAGUGAGGUCU CUCAUCCA	19403
5488	CGACCCA G CUAGCAU	4096	AAUGCUAG GCCGAAAGGCGAGUGAGGUCU UGGGUCGG	19404
5492	CCAGCTUA G CAUUGCAG	4097	CUGCAUUG GCCGAAAGGCGAGUGAGGUCU UAGCUGGG	19405

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5497	CUAGCAU G CAGCAAGA	4098	UCUUGCUG GCCGAAAGCGAGUGAGGUCU AAUGCUAG	19406
5500	GCAUUGCA G CAAGAGGU	4099	ACUCUCUG GCCGAAAGCGAGUGAGGUCU UGCAAUUC	19407
5507	AGCAAGAG G UUAUUAU	4100	AAUUGUA GCCGAAAGCGAGUGAGGUCU CUCUUGCU	19408
5524	CCACAAG G UCGAGCUA	4101	UAGCUCGA GCCGAAAGCGAGUGAGGUCU CUUUGUGG	19409
5529	AAGUCCA G CUAGGGGA	4102	UCCCCUAG GCCGAAAGCGAGUGAGGUCU UCGACCUU	19410
5539	UAGGGAG G CGGCGGCA	4103	UGCGCGCG GCCGAAAGCGAGUGAGGUCU CUCGCCUA	19411
5542	GGGAGCG G CGGCAUA	4104	UAUUGCCG GCCGAAAGCGAGUGAGGUCU CGCCUCCC	19412
5545	AGCGGCG G CAAUAUUC	4105	GAUAUUG GCCGAAAGCGAGUGAGGUCU CGCCGCCU	19413
5560	UAUGACA G CACACCCA	4106	UGGGGUGG GCCGAAAGCGAGUGAGGUCU UGUCAUGA	19414
5573	CCCACAG G CACUUCAG	4107	CUGAAGUG GCCGAAAGCGAGUGAGGUCU CUGUGGG	19415
5595	UUCCACA G UCCAAUUC	4108	GAUUGGA GCCGAAAGCGAGUGAGGUCU UCUGGGAA	19416
5641	CGAUCCA G CUUGGAAC	4109	GUUCCAAG GCCGAAAGCGAGUGAGGUCU UCGAUCCG	19417
5689	GGAAGAG G UUUGGUUU	4110	AAACCAA GCCGAAAGCGAGUGAGGUCU CGUCUUC	19418
5694	ACGUUUG G UUUGUGCC	4111	GGCACAA GCCGAAAGCGAGUGAGGUCU CAAACCGU	19419
5698	UUUGGUU G UGCCUAGU	4112	ACUAGGCA GCCGAAAGCGAGUGAGGUCU AAACCAA	19420
5700	UGGUUUU G CCUAGUGU	4113	ACACUAG GCCGAAAGCGAGUGAGGUCU ACAACCA	19421
5705	UGUGCUA G UGUCAAGA	4114	UCUUGACA GCCGAAAGCGAGUGAGGUCU UAGGCACA	19422
5707	UGCCUAGU G UCAAGAU	4115	CAUCUUGA GCCGAAAGCGAGUGAGGUCU ACUAGGCA	19423
5728	AUGAGAU G CCUUGC	4116	GCAAAGG GCCGAAAGCGAGUGAGGUCU AAUCUCAU	19424
5735	UGCCCUU G CCUACAAC	4117	GUUGUAG GCCGAAAGCGAGUGAGGUCU AAAGGCA	19425
5744	CCUACAAC G UGCUGGAA	4118	UUCACAGA GCCGAAAGCGAGUGAGGUCU GUUGUAGG	19426
5746	UACAACGU G CUGGAAG	4119	CUUUCAG GCCGAAAGCGAGUGAGGUCU ACGUUGUA	19427
5758	GAAGAAA G UAGUCCAA	4120	UUGGACUA GCCGAAAGCGAGUGAGGUCU UUUUUUUC	19428
5761	AGAAAGUA G UCCAUUG	4121	CAAUUGGA GCCGAAAGCGAGUGAGGUCU UACUUUCU	19429
5778	AACAGAA G UGUACGA	4122	UCGUACGA GCCGAAAGCGAGUGAGGUCU UUUUCUGU	19430
5781	AGAAAGU G UACGAGAC	4123	GUUCUGUA GCCGAAAGCGAGUGAGGUCU GACUUUCU	19431
5793	GAGACGA G UACCCCAA	4124	UUUGGGUA GCCGAAAGCGAGUGAGGUCU UCCGUCUC	19432
5804	CCCAAUU G UAAGAACG	4125	CGUUCUUA GCCGAAAGCGAGUGAGGUCU AUUUUGGG	19433
5827	GGGACUUU G UUAUCACA	4126	UGUGAUA GCCGAAAGCGAGUGAGGUCU AAAGUCCC	19434
5857	AAUUGGG G CUAACUUC	4127	GAAGUUG GCCGAAAGCGAGUGAGGUCU CCCCAGUU	19435
5869	ACUUCAG G CGAGCAGG	4128	CCUGCUCG GCCGAAAGCGAGUGAGGUCU CUUGAAGU	19436
5873	CAAGGCA G CAGGGUGA	4129	UCACCCUG GCCGAAAGCGAGUGAGGUCU UCGCCUUG	19437
5878	CGAGCAGG G UGAUUGAC	4130	GUCAUCA GCCGAAAGCGAGUGAGGUCU CCUGCUCG	19438
5888	GAUUGACA G CGGAAGA	4131	UCUUCGG GCCGAAAGCGAGUGAGGUCU UGUCAAUC	19439
5897	CCGGAAG G UGUGAAAC	4132	GUUUCACA GCCGAAAGCGAGUGAGGUCU UCUUCCGG	19440
5899	GGAAGAGU G UGAACCCA	4133	UGGUUUA GCCGAAAGCGAGUGAGGUCU ACUCUUC	19441
5935	AAGGGAGA G UGAUCCUG	4134	CAGAUCA GCCGAAAGCGAGUGAGGUCU UUCUCCUU	19442
5956	AACCAU G CAGUGACA	4135	UGUCACUG GCCGAAAGCGAGUGAGGUCU AGAUGGUU	19443
5959	CAUCUGCA G UGACAGCA	4136	UGCUGUCA GCCGAAAGCGAGUGAGGUCU UGCAGAU	19444
5965	CAGUGACA G CAGCUAGU	4137	ACUAGCUG GCCGAAAGCGAGUGAGGUCU UGUACACU	19445

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5968	UGACAGCA G CUAGUGCC	4138	GGCAUAG GCCGAAAGCGAGUGAGGUCU UGCUGUCA	19446
5972	AGCAGUA G UGCGCCC	4139	GGCGGCA GCCGAAAGCGAGUGAGGUCU UAGCUGCU	19447
5974	CAGCUAG G CCGCCAG	4140	CUGGCGG GCCGAAAGCGAGUGAGGUCU ACUAGCUG	19448
5977	CUAGUGCC G CCCAGAGA	4141	UCUCUGG GCCGAAAGCGAGUGAGGUCU GGCACUAG	19449
5987	CCAGAGAC G UGACGUA	4142	UACGUCCA GCCGAAAGCGAGUGAGGUCU GUCUCUGG	19450
5993	ACGUGGAC G UAUCGGUA	4143	UACCGAUA GCCGAAAGCGAGUGAGGUCU GUCCACGU	19451
5999	ACGAUCG G UAGAAUC	4144	GAUUCUA GCCGAAAGCGAGUGAGGUCU CGAUACGU	19452
6009	AGAAUCC G UCGCAGU	4145	ACUUGCGA GCCGAAAGCGAGUGAGGUCU GGAUUCU	19453
6012	AAUCCGUC G CAAGUUG	4146	CCAAUUG GCCGAAAGCGAGUGAGGUCU GACGGAUU	19454
6016	CGUGGCA G UUGGUGAU	4147	AUCACCA GCCGAAAGCGAGUGAGGUCU UUGCGAGG	19455
6020	GCAAGUUG G UGAUGAGU	4148	ACUCAUA GCCGAAAGCGAGUGAGGUCU CAACUJGC	19456
6027	GGUGAUGA G UACUGUA	4149	UAACAGUA GCCGAAAGCGAGUGAGGUCU UCAUCACC	19457
6032	UGAGUACU G UUAUGGG	4150	CCCCAUA GCCGAAAGCGAGUGAGGUCU AGUACUCA	19458
6042	UAUGGGG G CACACGAA	4151	UUCUGUG GCCGAAAGCGAGUGAGGUCU CCCCCAUA	19459
6070	CGAAUUC G CCCAUUG	4152	CCAAUGGG GCCGAAAGCGAGUGAGGUCU GAAGUUCG	19460
6085	GGACUGAG G CACGAUC	4153	GAUUCGUG GCCGAAAGCGAGUGAGGUCU CUCAGUCC	19461
6096	CGAAUACU G CUGACAA	4154	UUGUCCAG GCCGAAAGCGAGUGAGGUCU AUGAUUCG	19462
6114	AUCAACU G CCAAACG	4155	CCGUUGG GCCGAAAGCGAGUGAGGUCU AUGUUGAU	19463
6130	GACUGAUC G CUCAUUC	4156	GAUUGAG GCCGAAAGCGAGUGAGGUCU GAUCAGUC	19464
6150	CAACACAG G CGUGAGAA	4157	UUCUCACG GCCGAAAGCGAGUGAGGUCU UCUGGUUG	19465
6152	ACCAGAGC G UGAGAAAG	4158	CCUUCUCA GCCGAAAGCGAGUGAGGUCU GCUCUGGU	19466
6160	GUAGAGAG G UAUUAACC	4159	GUUAUAUA GCCGAAAGCGAGUGAGGUCU CUUCUCAC	19467
6186	GAUAUCCG G CUACAGAG	4160	CCUCUGAG GCCGAAAGCGAGUGAGGUCU CGUAUUC	19468
6222	CUGGAACU G UUGAGGAC	4161	GUCCUCA GCCGAAAGCGAGUGAGGUCU AGUUCACG	19469
6232	UGAGGACU G CAGAUUCG	4162	CAGAUUCG GCCGAAAGCGAGUGAGGUCU AGUCCUCA	19470
6240	GCAGAUUC G CCAGUUUG	4163	CAACUCUG GCCGAAAGCGAGUGAGGUCU AGAUCUCG	19471
6244	AUCUGCCA G UUUGGUG	4164	CAGCCAAA GCCGAAAGCGAGUGAGGUCU UGGCAGAU	19472
6249	CCAGUUUG G CUGGCUUA	4165	UAAGCCAG GCCGAAAGCGAGUGAGGUCU CAAACUGG	19473
6253	UUUGGUG G CUUACAAG	4166	CUUGUAAG GCCGAAAGCGAGUGAGGUCU CAGCCAAA	19474
6262	CUUACAAG G UUGCAGCG	4167	CGCUGCAA GCCGAAAGCGAGUGAGGUCU CUUGUAAG	19475
6265	ACAAGGUU G CAGCGGCU	4168	AGCCGUG GCCGAAAGCGAGUGAGGUCU AACCUUGU	19476
6268	AGGUUGCA G CGGUGGA	4169	UCCAGCCG GCCGAAAGCGAGUGAGGUCU UGCAACCU	19477
6271	UUGCAGCG G CUGAGUG	4170	CACUCCAG GCCGAAAGCGAGUGAGGUCU CGCUGCAA	19478
6277	CGGUGGA G UGUCAUAC	4171	GUUGACA GCCGAAAGCGAGUGAGGUCU UCCAGCCG	19479
6279	GUGGAGU G UCAUACCA	4172	UGGUUGA GCCGAAAGCGAGUGAGGUCU ACTUCCAG	19480
6297	GACCGGAG G UGUGUCUU	4173	AAGCACA GCCGAAAGCGAGUGAGGUCU CUCGCGUC	19481
6300	CGAGGUG G UGCUUUGA	4174	UCAAGCA GCCGAAAGCGAGUGAGGUCU CACCUCCG	19482
6302	GAGGUGU G CUUUGAUG	4175	CAUCAAG GCCGAAAGCGAGUGAGGUCU ACCACUUC	19483
6311	CUUUGAUG G UCCUAGGA	4176	UCCUAGGA GCCGAAAGCGAGUGAGGUCU CAUCAAG	19484
6349	ACAACGAA G UGGAAGUC	4177	GACUCCA GCCGAAAGCGAGUGAGGUCU UUCGUUGU	19485

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6355	AAGUGAA G UCAUCACG	4178	CGUGAUGA GCCGAAAGCGAGUGAGGUCU UUCACUU	19486
6366	AUCACAA G CUUGUGA	4179	UCACCAAG GCCGAAAGCGAGUGAGGUCU UUCGUGAU	19487
6371	GAAGCUUG G UGAAGGA	4180	UCCUUCA GCCGAAAGCGAGUGAGGUCU CAAGCUUC	19488
6390	AUUCUGAG G CCGCGUG	4181	CAGCGCG GCCGAAAGCGAGUGAGGUCU CUCAGAAU	19489
6393	CUGAGCC G CGUGAU	4182	AUCCAGCG GCCGAAAGCGAGUGAGGUCU GGCUCAG	19490
6395	GAGGCCG G CUGGAUUG	4183	CAUCCAG GCCGAAAGCGAGUGAGGUCU GCGCCUC	19491
6406	GAUGUAC G CCGGGUG	4184	CACCCUG GCCGAAAGCGAGUGAGGUCU GUCAUCC	19492
6412	AGCCAGG G UGUACUG	4185	CGAGUACA GCCGAAAGCGAGUGAGGUCU CCUGGCGU	19493
6414	GCCAGGU G UACUGGA	4186	UCCGAGUA GCCGAAAGCGAGUGAGGUCU ACCUGGC	19494
6430	AUCACAG G CACUAAAG	4187	CUUAGUG GCCGAAAGCGAGUGAGGUCU CUGGUGAU	19495
6439	CACUAAAG G GGUCAAG	4188	CUUGAACG GCCGAAAGCGAGUGAGGUCU CUUUGUG	19496
6441	CUAAGGC G UUCAAGGA	4189	UCCUUGAA GCCGAAAGCGAGUGAGGUCU GCCUUUAG	19497
6454	AGGACUUC G CCUCGGA	4190	UCCCGAG GCCGAAAGCGAGUGAGGUCU GAAUGUCU	19498
6467	GGGAAAC G UUCUCAGA	4191	UCUGAGAA GCCGAAAGCGAGUGAGGUCU GUUUUCCC	19499
6480	CAGUAGG G CUCAUUGA	4192	UCAUUGAG GCCGAAAGCGAGUGAGGUCU CCUAUCUG	19500
6490	UUAUUGAG G UUCUGGA	4193	UCCAGAA GCCGAAAGCGAGUGAGGUCU CUCAUUGA	19501
6504	GGAAAGU G CCUGAGCA	4194	UGCUCAG GCCGAAAGCGAGUGAGGUCU AUCUUUCC	19502
6510	AUGCCUGA G CACUUCAU	4195	AUGAAGUG GCCGAAAGCGAGUGAGGUCU UCAGGCAU	19503
6535	CAUGGAA G CACUUGAC	4196	GUCAAGUG GCCGAAAGCGAGUGAGGUCU UUCCCAUG	19504
6549	GACACCAU G UACUUGU	4197	ACAACGUA GCCGAAAGCGAGUGAGGUCU AUGGUGUC	19505
6553	CCAUGUAC G UUGUGCC	4198	GGCCACAA GCCGAAAGCGAGUGAGGUCU GUACAUGG	19506
6556	UGUACGUU G UGGCCACU	4199	AGUGGCCA GCCGAAAGCGAGUGAGGUCU AACGUACA	19507
6559	ACGUUGUG G CCACUGCA	4200	UGCAGUG GCCGAAAGCGAGUGAGGUCU CACACAGU	19508
6565	UGGCCACU G CAGAGAA	4201	UUUCUCUG GCCGAAAGCGAGUGAGGUCU AGUGGCCA	19509
6583	GAGGAAGA G CUCACAGA	4202	UCUGUGAG GCCGAAAGCGAGUGAGGUCU UCUCUCUC	19510
6595	ACAGAAUG G CCGUGGAG	4203	CUCCAGG GCCGAAAGCGAGUGAGGUCU CAUUCUGU	19511
6609	GAGGAACU G CCAGAUCC	4204	GCAUCUG GCCGAAAGCGAGUGAGGUCU AGUUCUC	19512
6616	UGCCAGAU G CUCUUCAG	4205	CUGAAGAG GCCGAAAGCGAGUGAGGUCU AUCUGGCA	19513
6631	AGACAAU G CCUUGAUU	4206	AAUCAAG GCCGAAAGCGAGUGAGGUCU AAUUGUCU	19514
6640	CCUUGAUU G CCUUAUUG	4207	CAUAAGG GCCGAAAGCGAGUGAGGUCU AAUCAAGG	19515
6650	CUUAUGA G UGUGAUGA	4208	UCAUCACA GCCGAAAGCGAGUGAGGUCU UCAUAAG	19516
6652	UAUAGAU G UGAUGACC	4209	GGUCAUA GCCGAAAGCGAGUGAGGUCU ACUCAUA	19517
6667	CAUGGGA G UAUUCUUC	4210	GAAGAUA GCCGAAAGCGAGUGAGGUCU UCCCAUGG	19518
6684	CUCCUCAU G CAGCGGAA	4211	UUCGCGUG GCCGAAAGCGAGUGAGGUCU AUGAGGAG	19519
6687	CUCAUGCA G CGGAAGGG	4212	CCCUUCCG GCCGAAAGCGAGUGAGGUCU UGCAUGAG	19520
6695	GCGGAAGG G CAUUGGAA	4213	UUCCAUG GCCGAAAGCGAGUGAGGUCU CCUUCGCG	19521
6710	AAAGAUAG G UUUGGAG	4214	CUCCCAA GCCGAAAGCGAGUGAGGUCU CUUUCUUU	19522
6719	UUUGGAG G CGCUGUCU	4215	AGACAGCG GCCGAAAGCGAGUGAGGUCU CUCCCAA	19523
6721	UGGGAGGC G CUGUCUUG	4216	CAAGACAG GCCGAAAGCGAGUGAGGUCU GCCUCCCA	19524
6724	GAGGCGCU G UCUUGGGA	4217	UCCCAAGA GCCGAAAGCGAGUGAGGUCU AGCGCUC	19525

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6733	UCUUGGA G UCGGACC	4218	GGUGCGA GCCGAAAGGCGAGUGAGGUCU UCCCAAGA	19526
6736	UGGAGUC G CGACCUUU	4219	AAAGGUCG GCCGAAAGGCGAGUGAGGUCU GACUCCCA	19527
6749	CUUUUUCU G UUGGAUGG	4220	CCAUCCAA GCCGAAAGGCGAGUGAGGUCU AGAAAAAG	19528
6757	GUUGGAVG G CUAAAGUU	4221	AACUUCAG GCCGAAAGGCGAGUGAGGUCU CAUCCAAC	19529
6763	UGGUGAA G UUGCAGGA	4222	UCCUGGAA GCCGAAAGGCGAGUGAGGUCU UUCAGCCA	19530
6781	CGAAGUC G CGGAAUG	4223	CAUCCGG GCCGAAAGGCGAGUGAGGUCU GAUCUUCG	19531
6789	GCGGAAU G UUGCUGCU	4224	AGCAGCAA GCCGAAAGGCGAGUGAGGUCU AUUCCGGC	19532
6792	GGAUUGU G CUGCUCUC	4225	GAGAGCAG GCCGAAAGGCGAGUGAGGUCU AACAUUCC	19533
6795	AUGUUGCU G CUCUCCCU	4226	AGGAGAG GCCGAAAGGCGAGUGAGGUCU AGCAACAU	19534
6817	UGAUGAU G UGCUAAUU	4227	AAUAGCA GCCGAAAGGCGAGUGAGGUCU AAUCAUCA	19535
6819	AUGAUUGU G CUAAUUCU	4228	GGAUUGAG GCCGAAAGGCGAGUGAGGUCU ACAAUCAU	19536
6831	AUUCUUGA G CCAGAGAA	4229	UUCUCUGG GCCGAAAGGCGAGUGAGGUCU UCAGGAUU	19537
6840	CCAGAGAA G CAACGUUC	4230	GAACGUUG GCCGAAAGGCGAGUGAGGUCU UUCUCUUG	19538
6845	GAAGCAG G UUGGCAGA	4231	UCUGCGAA GCCGAAAGGCGAGUGAGGUCU GUUCGUUC	19539
6849	CAACGUUC G CAGACAGA	4232	UCUGUCUG GCCGAAAGGCGAGUGAGGUCU GAACGUUG	19540
6864	GACAACCA G CUAGCCGU	4233	ACGGCUAG GCCGAAAGGCGAGUGAGGUCU UGGUUGUC	19541
6868	ACCAGCUA G CCGUGUUC	4234	GAACACGG GCCGAAAGGCGAGUGAGGUCU UAGCUGGU	19542
6871	AGCUAGCC G UGUUCCUG	4235	CAGGAACA GCCGAAAGGCGAGUGAGGUCU GGCUAGCU	19543
6873	CUAGCCGU G UUCUGAU	4236	AUCAGGAA GCCGAAAGGCGAGUGAGGUCU ACGGCUAG	19544
6884	CCUGAUUU G UGUCAUGA	4237	UCAUGACA GCCGAAAGGCGAGUGAGGUCU AAUUCAGG	19545
6886	UGAUUUUG G UCAUGACC	4238	GGUCAUGA GCCGAAAGGCGAGUGAGGUCU ACAAUCA	19546
6898	UACCCUUU G UGAGCGCA	4239	UGCGCUCA GCCGAAAGGCGAGUGAGGUCU AAGGUUCA	19547
6902	CUUUGUGA G CGCAGUGG	4240	CCACUGCG GCCGAAAGGCGAGUGAGGUCU UCACAAGG	19548
6904	UUGUGAGC G CAGUGGCA	4241	UGCCACUG GCCGAAAGGCGAGUGAGGUCU GCUCACAA	19549
6907	UGAGCGCA G UGGCAGCC	4242	GGCUGCCA GCCGAAAGGCGAGUGAGGUCU UGCUGCUA	19550
6910	GGCAGUG G CAGCCAAC	4243	GUUGGCUU GCCGAAAGGCGAGUGAGGUCU CACUGGCG	19551
6913	CAGUGGCA G CCAACGAG	4244	CUCGUUGG GCCGAAAGGCGAGUGAGGUCU UGCCACUG	19552
6926	CGAGAUGG G UUGGCUAG	4245	CUAGCCAA GCCGAAAGGCGAGUGAGGUCU CCAUCUUG	19553
6930	AUGGGUUG G CUAGAUAA	4246	UUAUCUAG GCCGAAAGGCGAGUGAGGUCU CAACCCAU	19554
6947	GACCAAGA G UGACAUAA	4247	UUAUGUCA GCCGAAAGGCGAGUGAGGUCU UCUUGGUC	19555
6956	UGACAUAA G CAGUUGU	4248	ACAAACUG GCCGAAAGGCGAGUGAGGUCU UUAUGUCA	19556
6959	CAUAAGCA G UUGUUGU	4249	CAAAACAA GCCGAAAGGCGAGUGAGGUCU UGCUUAUG	19557
6963	AGCAGUUU G UUUGGGCA	4250	UGCCCAAA GCCGAAAGGCGAGUGAGGUCU AAACUGCU	19558
6969	UUGUUGG G CAAAGAAU	4251	AUUCUUUG GCCGAAAGGCGAGUGAGGUCU CCAACAAA	19559
6982	GAUUGAG G UCAAGGAG	4252	CUCUUGA GCCGAAAGGCGAGUGAGGUCU CUCAAUUC	19560
6998	GAUUUUA G CAUUGGAG	4253	CUCCCAUG GCCGAAAGGCGAGUGAGGUCU UGAAAUUC	19561
7008	AUGGGAGA G UUUUUUUU	4254	AAAAGAAA GCCGAAAGGCGAGUGAGGUCU UCUCCCAU	19562
7026	GACUUGAG G CCGGCAC	4255	GUUGCCGG GCCGAAAGGCGAGUGAGGUCU CUCACAGC	19563
7030	UGAGGCCG G CAACAGCC	4256	GGCUGUUG GCCGAAAGGCGAGUGAGGUCU CGGCCUCA	19564
7036	CGGCAACA G CCUGGUCA	4257	UGACCAGG GCCGAAAGGCGAGUGAGGUCU UGUUGCCG	19565

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7041	ACAGCCUG G UCACUGUA	4258	UACAGUGA GCCGAAAGCCGAGUGAGGUCU CAGGCUGU	19566
7047	UGGUCACU G UACGCUGU	4259	ACAGCGUA GCCGAAAGCCGAGUGAGGUCU AGUGACCA	19567
7051	CAGUGUAC G CUGUGACA	4260	UGUCACAG GCCGAAAGCCGAGUGAGGUCU GUACAGUG	19568
7054	UGUAGCGU G UGACACAA	4261	UGUUGUCA GCCGAAAGCCGAGUGAGGUCU AGCGUACA	19569
7063	UGACACAA G CGGUCCUC	4262	GAGGACCG GCCGAAAGCCGAGUGAGGUCU UGUUGUCA	19570
7066	CAACAGCG G UCCUCACU	4263	AGUGAGGA GCCGAAAGCCGAGUGAGGUCU CGCUGUUG	19571
7080	ACUCCACU G CUAAAGCA	4264	UGCUIUAG GCCGAAAGCCGAGUGAGGUCU AGUGGAGU	19572
7086	CUGGUAAA G CAUUGAU	4265	AUCAAUUG GCCGAAAGCCGAGUGAGGUCU UUUAGCAG	19573
7098	UUGAU'CAC G UCAGAUUA	4266	UAAUCUGA GCCGAAAGCCGAGUGAGGUCU GUGAUCAA	19574
7135	CAAUAAAC G UUCAGGCA	4267	UGCCUGAA GCCGAAAGCCGAGUGAGGUCU GUUUAUUG	19575
7141	ACGUUCAG G CAAGUGCA	4268	UGCACUUG GCCGAAAGCCGAGUGAGGUCU CUGAAACGU	19576
7145	UCAGGCAA G UGCACUUA	4269	AUAGUGCA GCCGAAAGCCGAGUGAGGUCU UUGCCUGA	19577
7147	AGGCRAGU G CACUAUUC	4270	GAUUAUG GCCGAAAGCCGAGUGAGGUCU ACUUGCCU	19578
7162	UCACACUC G CGGAGGC	4271	GCTUCGCG GCCGAAAGCCGAGUGAGGUCU GAGUGUGA	19579
7164	ACACUCCG G CGAGGCUU	4272	AAGCCUUG GCCGAAAGCCGAGUGAGGUCU GCGAGUGU	19580
7169	CGGCGGAG G CUUCCCUU	4273	AGGGGAAG GCCGAAAGCCGAGUGAGGUCU CUCGCCGG	19581
7180	UCGCCUUC G UCGAUGUU	4274	AACAUCGA GCCGAAAGCCGAGUGAGGUCU GAAGGGGA	19582
7186	UCGUUGAU G UUGGAGUG	4275	CACUCCAA GCCGAAAGCCGAGUGAGGUCU AUCGACGA	19583
7192	AGUUGGCA G UUGCGCTU	4276	AGCCGACA GCCGAAAGCCGAGUGAGGUCU UCCAAACAU	19584
7194	GUUGGAGU G UCGGCUCU	4277	AGAGCCGA GCCGAAAGCCGAGUGAGGUCU ACUCCAAC	19585
7198	GAGUGUCG G CUCUCCUG	4278	CAGGAGAG GCCGAAAGCCGAGUGAGGUCU CGACACUC	19586
7206	GCUCUCCU G CUAGCAGC	4279	GCUGCUAG GCCGAAAGCCGAGUGAGGUCU AGGAGAGC	19587
7210	UCCUGCUA G CAGCCGGA	4280	UCCGGCUG GCCGAAAGCCGAGUGAGGUCU UAGCAGGA	19588
7213	UGCUAGCA G CCGGAUGC	4281	GCAUCCGG GCCGAAAGCCGAGUGAGGUCU UGCUAGCA	19589
7220	AGCGGGAU G CUGGGGAC	4282	GUCCCCAG GCCGAAAGCCGAGUGAGGUCU AUCCGGCU	19590
7231	GGGACAA G UCACCCUC	4283	GAGGUGUA GCCGAAAGCCGAGUGAGGUCU UUGUCCCC	19591
7243	CCCUACAC G UUAAGGUA	4284	UACCGUAA GCCGAAAGCCGAGUGAGGUCU GGUGAGGG	19592
7249	CGUUAACG G UAACAGCG	4285	CGCUUUA GCCGAAAGCCGAGUGAGGUCU CGUAACGG	19593
7255	CGGUAACA G CGCAACA	4286	UGUUGCCG GCCGAAAGCCGAGUGAGGUCU UGUUACCG	19594
7258	UAAACAGG G CAACACUC	4287	GAGUGUUG GCCGAAAGCCGAGUGAGGUCU CGCUGUUA	19595
7274	CCUUUUU G CCACUAUG	4288	CAUAGUGG GCCGAAAGCCGAGUGAGGUCU AAAAAAGG	19596
7282	GCCACUAG G CCUACAU	4289	CAUGUAGG GCCGAAAGCCGAGUGAGGUCU AUAGUGGC	19597
7291	CCUACAU G UUCGCCGU	4290	ACCGGAA GCCGAAAGCCGAGUGAGGUCU CAUGUAGG	19598
7298	GGUUCGCG G UUGGCAAG	4291	CUUGCCAA GCCGAAAGCCGAGUGAGGUCU CGGGAACC	19599
7302	CCCGGUUG G CAAGCTUGA	4292	UCAGCUUG GCCGAAAGCCGAGUGAGGUCU CAAACCGG	19600
7306	GUUGGCAA G CUGAGGCA	4293	UGCCUCAG GCCGAAAGCCGAGUGAGGUCU UUGCCAAC	19601
7312	AAGCUGAG G CAUUGCGC	4294	GCGCAUUG GCCGAAAGCCGAGUGAGGUCU CUCAGCUC	19602
7317	GAGGCAAU G CGCUCAGC	4295	GCUGAGCG GCCGAAAGCCGAGUGAGGUCU AUUGCCUC	19603
7319	GGCAUAGC G CUCAGCCC	4296	GGGCUAG GCCGAAAGCCGAGUGAGGUCU GCAUUGCC	19604
7324	UGCGCUCA G CCCAGCGG	4297	CCGCUUGG GCCGAAAGCCGAGUGAGGUCU UGAGCGCA	19605

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7329	UCAGCCCA G CGCGGAC	4298	GUCCGCCG GCCGAAAGGCGAGUGAGGUCU UGGGCGUA	19606
7332	GCCAGCG G CGGACAGC	4299	GCUGUCCG GCCGAAAGGCGAGUGAGGUCU CGCUGGGC	19607
7339	GGCGGACA G CGGCCGA	4300	UCCGGCCG GCCGAAAGGCGAGUGAGGUCU UGUCCGCC	19608
7342	GGAGAGG G CGGAAUC	4301	GAUUCGG GCCGAAAGGCGAGUGAGGUCU CGCUGUCC	19609
7360	UGAAGAC G CUGUAGU	4302	CACUACAG GCCGAAAGGCGAGUGAGGUCU GUUCUUA	19610
7363	AGAACGU G UAGUGAU	4303	AUCCACUA GCCGAAAGGCGAGUGAGGUCU AGCGUUCU	19611
7366	AGCUGUA G UGAUGGC	4304	GCCAUA GCCGAAAGGCGAGUGAGGUCU UACAGCGU	19612
7373	AGUGGAG G CAUCUGG	4305	CCAGGAG GCCGAAAGGCGAGUGAGGUCU CAUCCACU	19613
7378	AUGGCAU G UGGCCAG	4306	CGUGGCCA GCCGAAAGGCGAGUGAGGUCU GAUGCCAU	19614
7381	GCAUCUG G CCACGGAC	4307	GUCCGUG GCCGAAAGGCGAGUGAGGUCU CACGAUGC	19615
7390	CCACGGAC G UCCAGAA	4308	UUCUGGGA GCCGAAAGGCGAGUGAGGUCU GUCCGUGG	19616
7404	GAUUAAG G CGCACAC	4309	GUGGUGG GCCGAAAGGCGAGUGAGGUCU UCUAAUUC	19617
7406	AUUAAGC G CACCACAC	4310	GUUGUGG GCCGAAAGGCGAGUGAGGUCU GCUCUAAU	19618
7422	CCCAUCAU G CAGAAGAA	4311	UUCUUCUG GCCGAAAGGCGAGUGAGGUCU AUGAUGGG	19619
7432	AGAAGAA G UUGBACAG	4312	CUGUCCAA GCCGAAAGGCGAGUGAGGUCU UUCUUCU	19620
7446	CAGAUCAU G CUGAUUU	4313	AAGAUCAG GCCGAAAGGCGAGUGAGGUCU AUGAUCUG	19621
7456	UGAUCUG G UGUCUCUA	4314	UAGAGACA GCCGAAAGGCGAGUGAGGUCU CAAGAUA	19622
7458	AUCUUGU G UCUCUAGC	4315	GUAGAGA GCCGAAAGGCGAGUGAGGUCU ACCAAGAU	19623
7465	UGUCUCUA G CUGCAGUA	4316	UACUGCAG GCCGAAAGGCGAGUGAGGUCU UAGAGACA	19624
7468	CUCUAGU G CAGUAGUA	4317	UACUACUG GCCGAAAGGCGAGUGAGGUCU AGCUAGAG	19625
7471	UAGUGCA G UAGUAGUG	4318	CACUACUA GCCGAAAGGCGAGUGAGGUCU UGCAGCUA	19626
7474	CUGCAGUA G UAGUGAAC	4319	GUUCACUA GCCGAAAGGCGAGUGAGGUCU UACUGCAG	19627
7477	CAGUAGUA G UGAACCCG	4320	CGGCUUA GCCGAAAGGCGAGUGAGGUCU UACUACUG	19628
7485	GUGAACCC G UCUGUGAA	4321	UUCACAGA GCCGAAAGGCGAGUGAGGUCU GGUUUCAC	19629
7489	ACCGUCU G UGAAGACA	4322	UGUCUUA GCCGAAAGGCGAGUGAGGUCU AGACGGGU	19630
7498	UGAAGACA G UACGAGAA	4323	UUCUCGUA GCCGAAAGGCGAGUGAGGUCU UGUCUUUA	19631
7507	UACGAGAA G CCGBAAU	4324	AUUCUCCG GCCGAAAGGCGAGUGAGGUCU UUCUCGUA	19632
7525	UGAUCAG G CCGCAGCG	4325	CGCUGCCG GCCGAAAGGCGAGUGAGGUCU CGUGAUA	19633
7528	UCACGGCC G CAGCGGUG	4326	CACGCGUG GCCGAAAGGCGAGUGAGGUCU GGCCGUGA	19634
7531	CGGCCGA G CGGUGACG	4327	CGUCACCG GCCGAAAGGCGAGUGAGGUCU UGCCGCCG	19635
7534	CCGCAGCG G UGACGCUU	4328	AAGCUGUA GCCGAAAGGCGAGUGAGGUCU CGCUGCCG	19636
7539	CGGUGAC G CUUUGGA	4329	UCCCAAAG GCCGAAAGGCGAGUGAGGUCU GUCACCGC	19637
7555	AGAUGGA G CAAGCTCU	4330	AGAGCTUG GCCGAAAGGCGAGUGAGGUCU UCCAUUCU	19638
7559	UGGAGCAA G CUCUGUU	4331	AAACAGAG GCCGAAAGGCGAGUGAGGUCU UUGCUCCA	19639
7564	CAAGCTCU G UUUGGAAC	4332	GUUCCAAA GCCGAAAGGCGAGUGAGGUCU AGAGCTUG	19640
7573	UUUGGAAC G CAACAACU	4333	AGUUGUUG GCCGAAAGGCGAGUGAGGUCU GUUCCAAA	19641
7582	CACAACU G CCAUCGGA	4334	UCCGAUGG GCCGAAAGGCGAGUGAGGUCU AGUUGUUG	19642
7595	CGGACUCU G CCACAUA	4335	UGAUGUGG GCCGAAAGGCGAGUGAGGUCU AGAGUCCG	19643
7605	CACAUCAU G CGUGGGG	4336	CCCCACAG GCCGAAAGGCGAGUGAGGUCU AUGAUGUG	19644
7607	CAUCAUGC G UGGGGUU	4337	AACCCCA GCCGAAAGGCGAGUGAGGUCU GCAUGAUG	19645

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7613	GCUGGGG G UUGUUGU	4338	ACAACAA GCCGAAGGCGAGUGAGGUCU CCCACGC	19646
7617	GGGGUUG G UUGUCAUG	4339	CAUGACAA GCCGAAGGCGAGUGAGGUCU CAACCCC	19647
7620	GUUGGUU G UCAUGUCU	4340	AGACAUGA GCCGAAGGCGAGUGAGGUCU AACCAACC	19648
7625	GUUGUCAU G UCUAUCCA	4341	UGGAUAGA GCCGAAGGCGAGUGAGGUCU AUGACAAC	19649
7682	AAAAGAG G UGGGGCAA	4342	UUGCCCCA GCCGAAGGCGAGUGAGGUCU CUCUUUUU	19650
7687	GAGGUGG G CAAAAGGA	4343	UCCUUUUG GCCGAAGGCGAGUGAGGUCU CCCACCTC	19651
7697	AAAAGGAC G CACUUGG	4344	CCAAGGUG GCCGAAGGCGAGUGAGGUCU GUCCUUUU	19652
7711	UGGAGAG G UUGGAAA	4345	UUUCCAAA GCCGAAGGCGAGUGAGGUCU CUCUCCCA	19653
7749	AAAGAAG G UUCACUAG	4346	CUAGUGAA GCCGAAGGCGAGUGAGGUCU UCUUCUUU	19654
7758	UACGUAG G UACCGGAA	4347	UUGCGGUA GCCGAAGGCGAGUGAGGUCU CUAGUGAA	19655
7763	UAGGUACC G CAAAGAGG	4348	CCUCUUUG GCCGAAGGCGAGUGAGGUCU GGUACCUA	19656
7771	GCAAAGAG G CCAUCAUC	4349	GAUGAUGG GCCGAAGGCGAGUGAGGUCU CUCUUUGC	19657
7783	UCAUCGAA G UCGAUCGC	4350	GCBAUCGA GCCGAAGGCGAGUGAGGUCU UUCGAUGA	19658
7790	AGUGAUC G CUCAGCGG	4351	CCGCUAGG GCCGAAGGCGAGUGAGGUCU GAUCGACU	19659
7795	AUCGUCA G CGGCAAA	4352	UUUUGCCG GCCGAAGGCGAGUGAGGUCU UGAGCGAU	19660
7798	GUCAGCG G CAAAACAC	4353	GUGUUUUG GCCGAAGGCGAGUGAGGUCU CCGUGAGC	19661
7807	CAAAACAC G CCAAGGAA	4354	UUUCCUGG GCCGAAGGCGAGUGAGGUCU GUGUUUUU	19662
7820	GAAGAAG G CAAUGUCA	4355	UUGACAUUG GCCGAAGGCGAGUGAGGUCU CUUCUUUC	19663
7825	AAGGCAU G UCAUGUGA	4356	UCCAGUGA GCCGAAGGCGAGUGAGGUCU AUUGCCUU	19664
7836	ACUGGAG G CAUCCAGU	4357	ACUGGAUG GCCGAAGGCGAGUGAGGUCU CCUCCAGU	19665
7843	GGCAUCCA G UCUUAGG	4358	CCUAGAGA GCCGAAGGCGAGUGAGGUCU UGGAUGCC	19666
7853	CUUAGGG G CACAGCAA	4359	UUGCUUUG GCCGAAGGCGAGUGAGGUCU CCCUAGAG	19667
7858	GGGACAC G CAAAACUG	4360	CAGUUUUG GCCGAAGGCGAGUGAGGUCU UGUGCCCC	19668
7872	CUGAGAUG G CUGGUCCA	4361	UCGACCAAG GCCGAAGGCGAGUGAGGUCU CAUCUCAG	19669
7876	GAUGGCUG G UCGAACGG	4362	CCGUUCCA GCCGAAGGCGAGUGAGGUCU CAGCCAUC	19670
7887	GAACGGAG G UUUCUCGA	4363	UCGAGAAA GCCGAAGGCGAGUGAGGUCU CUCCGUUC	19671
7900	UCGAACCG G UCGGAAA	4364	UUUUCGGA GCCGAAGGCGAGUGAGGUCU CGGUUCGA	19672
7909	UCGGAAGA G UGAUUGAC	4365	GUCAAUCA GCCGAAGGCGAGUGAGGUCU UUUUCCGA	19673
7925	CCUUGGAU G UGGAAGAG	4366	CUCUUCCA GCCGAAGGCGAGUGAGGUCU AUCCAAGG	19674
7934	UGGAAGAG G CGGUUGGU	4367	ACCAACCG GCCGAAGGCGAGUGAGGUCU CUCUUCCA	19675
7937	AAGAGGCG G UUGGUUUU	4368	AACACCAA GCCGAAGGCGAGUGAGGUCU GGCUCUUU	19676
7941	GGCGGUDG G UGUUACUA	4369	UAGUAACA GCCGAAGGCGAGUGAGGUCU CAACCGCC	19677
7943	CGGUUGGU G UUAUAUA	4370	UAUAGUAA GCCGAAGGCGAGUGAGGUCU ACCCAACG	19678
7954	ACUAUUG G CAACCCAA	4371	UUGGUUUG GCCGAAGGCGAGUGAGGUCU CAUAUAGU	19679
7959	AAAAGAAG G UCCAGAA	4372	UUUUCUGA GCCGAAGGCGAGUGAGGUCU UCUUUUUU	19680
7978	UCCAGAA G UCAAGAGG	4373	CCCUUCGA GCCGAAGGCGAGUGAGGUCU UUCUUUGA	19681
7986	GUCAAGG G UACACAAA	4374	UUUGUUA GCCGAAGGCGAGUGAGGUCU CCUCUGAC	19682
7997	CACAAAG G CGGUCCCG	4375	CGGACCCG GCCGAAGGCGAGUGAGGUCU CCUUUGUG	19683
8000	AAAGGCG G UCCCGGAC	4376	GUCCGGA GCCGAAGGCGAGUGAGGUCU CGCCCUUU	19684
8016	CAUGAAGA G CCAACACU	4377	AGUUUGGG GCCGAAGGCGAGUGAGGUCU UCUUCAUG	19685

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8026	CCCAACUA G UGCAAGU	4378	ACUUUGCA GCCAAAGCGAGUGAGGUCU UAGUUGGG	19686
8028	CAACUAGU G CAAGUUA	4379	UAAACUUG GCCAAAGCGAGUGAGGUCU ACUAGUUG	19687
8033	AGUGCAAA G UUAUGGAU	4380	AUCCAUA GCCAAAGCGAGUGAGGUCU UUUGCACU	19688
8050	GGAACAU G UCACCAUG	4381	CAUGGUGA GCCAAAGCGAGUGAGGUCU AAUGUUCU	19689
8063	CAUGAAGA G UGGAGUGG	4382	CCACUCCA GCCAAAGCGAGUGAGGUCU UCUUCAUG	19690
8068	AGAGUGGA G UGGAGUGG	4383	CACAUCCA GCCAAAGCGAGUGAGGUCU UCCACUCU	19691
8074	GAGUGAU G UGUUCUAC	4384	GUAGAACA GCCAAAGCGAGUGAGGUCU AUCCACUC	19692
8076	GUGGAUGU G UUCUACAG	4385	CUGUAGRA GCCAAAGCGAGUGAGGUCU ACAUCCAC	19693
8094	CCUUCUGA G UGUUGUGA	4386	UCACAACA GCCAAAGCGAGUGAGGUCU UCAGAAGG	19694
8096	UUCUGAGU G UUGUGACA	4387	UGUCACAA GCCAAAGCGAGUGAGGUCU ACUCAGAA	19695
8099	UGAGUGUU G UGACACCC	4388	GGGUGUCA GCCAAAGCGAGUGAGGUCU AACACUCA	19696
8114	CCUCCUUU G UGCAUUCG	4389	CGAUGUCA GCCAAAGCGAGUGAGGUCU AAAGGAGG	19697
8127	AUCGAGA G UCCUCGUC	4390	GACGAGGA GCCAAAGCGAGUGAGGUCU UCUCCGAU	19698
8133	GAGUCCUC G UCAAGUGC	4391	GCACUUGA GCCAAAGCGAGUGAGGUCU GAGGACUC	19699
8138	CUCGUCAA G UGCUGAGG	4392	CTUCAGCA GCCAAAGCGAGUGAGGUCU UUGACGAG	19700
8140	CGUCNAGU G CUGAGGUU	4393	AACCTCAG GCCAAAGCGAGUGAGGUCU ACUUGACG	19701
8146	GUGCUGAG G UUGAAGAG	4394	CUCUUCAA GCCAAAGCGAGUGAGGUCU CUCAGCAC	19702
8154	GUUGAAGA G CAUAGGAC	4395	GUCCUAUG GCCAAAGCGAGUGAGGUCU UCUUCAAC	19703
8170	CGAUUCGG G UCCUUGAA	4396	UUCAAAGA GCCAAAGCGAGUGAGGUCU CCGAAUCG	19704
8182	UGAAUUG G UUGAGGAC	4397	GUCCUCAA GCCAAAGCGAGUGAGGUCU CAUUUCAA	19705
8193	GAGGACUG G CUGCACC	4398	CGGUCGAG GCCAAAGCGAGUGAGGUCU CAGUCCUC	19706
8196	GACUGGCU G CACCGAGG	4399	CCUCGGUG GCCAAAGCGAGUGAGGUCU AGCCAGUC	19707
8205	CACCGAGG G CCAAGGGA	4400	UCCCUUGG GCCAAAGCGAGUGAGGUCU CCUCGGUG	19708
8219	GGAUUUU G CGUAGAG	4401	CCUUCACG GCCAAAGCGAGUGAGGUCU AAAAUUCC	19709
8221	AUUUUGC G UGAAGGUG	4402	CACCUUCA GCCAAAGCGAGUGAGGUCU GCAAAAUU	19710
8227	GCGUGAAG G UGCUCUGC	4403	GCAGAGCA GCCAAAGCGAGUGAGGUCU CUUCACGC	19711
8229	GUGAAGGU G CUCUGCCC	4404	GGGCAGAG GCCAAAGCGAGUGAGGUCU ACCUUCAC	19712
8234	GGUGUCU G CCCUACA	4405	UGUAGGGG GCCAAAGCGAGUGAGGUCU AGAGCACC	19713
8244	CCUACAU G CCGAAAGU	4406	ACUUUCGG GCCAAAGCGAGUGAGGUCU AUGUAGGG	19714
8251	UGCGAAA G UCAUAGAG	4407	CUCUAUGA GCCAAAGCGAGUGAGGUCU UUUCGGCA	19715
8268	AAGAUUGA G CUGCUCCA	4408	UGGAGCAG GCCAAAGCGAGUGAGGUCU UCCAUCUU	19716
8271	AUGAGCU G CUCCACAG	4409	CGUUGGAG GCCAAAGCGAGUGAGGUCU AGCUCCAU	19717
8279	GCUCACAC G CCGUAUUG	4410	CAUACCGG GCCAAAGCGAGUGAGGUCU GUUGGAGC	19718
8283	CAACGCCG G UAUGGGG	4411	CCCCCAUA GCCAAAGCGAGUGAGGUCU CGGCGUUG	19719
8299	GGGACUG G UCAGAAAC	4412	GUUUCUGA GCCAAAGCGAGUGAGGUCU CAGUCCCC	19720
8328	AUUUCCAC G CACGAGAU	4413	AUUCUGUG GCCAAAGCGAGUGAGGUCU GUGGAUUU	19721
8337	CACGAGU G UAUUGGUG	4414	ACCCAUA GCCAAAGCGAGUGAGGUCU AUUCUGUG	19722
8344	UGUAUUGG G UGAGUCGA	4415	UCGACUCA GCCAAAGCGAGUGAGGUCU CCAAUACA	19723
8348	UUGGGUGA G UCGAGCUU	4416	AAGCUUGA GCCAAAGCGAGUGAGGUCU UCACCCAA	19724
8353	UGAGUCGA G CUUCAGGC	4417	GCCUGAAG GCCAAAGCGAGUGAGGUCU UCGACUCA	19725

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8360	AGCUCAG G CAAUGGG	4418	CCACAUG GCCAAAGCGAGUGAGGUCU CUGAAGCU	19726
8365	CAGGCAU G UGUACAU	4419	AUGUACCA GCCAAAGCGAGUGAGGUCU AUUGCCUG	19727
8368	GCAUUG G UACAUA	4420	UGAAUGA GCCAAAGCGAGUGAGGUCU CACAUGC	19728
8377	UAUUGA G UAAUAUG	4421	CAUAUCA GCCAAAGCGAGUGAGGUCU UGAUAUGA	19729
8390	UAUGACA G CCAGGUG	4422	GCACUUG GCCAAAGCGAGUGAGGUCU UGGUACA	19730
8395	CCAGCCAG G UGUCCUA	4423	UAGGAGCA GCCAAAGCGAGUGAGGUCU CUGGCTUG	19731
8397	AGCCAGG G CUCCUAGG	4424	CUAGGAG GCCAAAGCGAGUGAGGUCU ACCUGGCU	19732
8452	AGGAAGAU G UAAAUUG	4425	CAAGUUA GCCAAAGCGAGUGAGGUCU AUCUUCU	19733
8465	CUUGGAA G UGGAACCA	4426	UGGUUCCA GCCAAAGCGAGUGAGGUCU UUCCCAAG	19734
8476	GAACCAAG G CGUGGGA	4427	UCCACCG GCCAAAGCGAGUGAGGUCU CCUGGUUC	19735
8479	CCAGGCG G UGGGAAA	4428	UUUCCCA GCCAAAGCGAGUGAGGUCU CGCCCTUG	19736
8493	AAACCCU G UCAACUC	4429	GAGUUGAG GCCAAAGCGAGUGAGGUCU AGGGUUU	19737
8510	AGACACA G UAAAUCA	4430	UGAUUUA GCCAAAGCGAGUGAGGUCU UGGUGUCU	19738
8541	CGACUCAG G CGUGAUA	4431	UACUCAG GCCAAAGCGAGUGAGGUCU CUGAGUCG	19739
8543	ACUCAGG G UGAGUACA	4432	UGUACUA GCCAAAGCGAGUGAGGUCU GCCUGAGU	19740
8547	AGGCGUGA G UACAGUUC	4433	GAACUGUA GCCAAAGCGAGUGAGGUCU UCACGCCU	19741
8552	UGAGUACA G UUCGAGGU	4434	ACUUGAA GCCAAAGCGAGUGAGGUCU UGUACUA	19742
8559	AGUUCGAC G UGGACCA	4435	UGGUGCCA GCCAAAGCGAGUGAGGUCU GUCAACU	19743
8562	UCGACUG G CACACGA	4436	UCGUGUG GCCAAAGCGAGUGAGGUCU CACGUCGA	19744
8606	CUAUCAG G CAGUUAUG	4437	CAUAUCU GCCAAAGCGAGUGAGGUCU CGUGAUAG	19745
8609	UCACGCA G UUAUGAU	4438	CAUCAUA GCCAAAGCGAGUGAGGUCU UGCCGUGA	19746
8617	GUUAUGAU G UGAAGCC	4439	GGGCUUA GCCAAAGCGAGUGAGGUCU AUCAUAAC	19747
8622	GAUGUGAA G CCCACAG	4440	CCUGUGG GCCAAAGCGAGUGAGGUCU UUCACAUC	19748
8630	GCCACAG G CUCCGCCA	4441	UGGCGGAG GCCAAAGCGAGUGAGGUCU CUGUGGGC	19749
8635	CAGGCUCC G CCAGUUCG	4442	CGAACUG GCCAAAGCGAGUGAGGUCU GGAGCCUG	19750
8639	CUCCGCA G UUCGUGG	4443	CCAGCGAA GCCAAAGCGAGUGAGGUCU UGGCGGAG	19751
8643	GCCAGUUC G CUGGUCAA	4444	UGACCCAG GCCAAAGCGAGUGAGGUCU GAACUGGC	19752
8647	GUUCGUG G UCAUUGA	4445	UCCAUGA GCCAAAGCGAGUGAGGUCU CAGCGAAC	19753
8656	UCAUUGA G UGGUCAGG	4446	CCUGACCA GCCAAAGCGAGUGAGGUCU UCCAUGA	19754
8659	AUGGAGUG G UCAGGUC	4447	GAGCCUGA GCCAAAGCGAGUGAGGUCU CACUCCAU	19755
8664	GUGGUCAG G CUCCUCUC	4448	GAGAGGAG GCCAAAGCGAGUGAGGUCU CUGACCCAC	19756
8698	UCACGAU G UUAACACC	4449	GGUGGUAA GCCAAAGCGAGUGAGGUCU AUUCGUGA	19757
8710	CCACCAUG G CCAUGACU	4450	AGUCAUG GCCAAAGCGAGUGAGGUCU CAUGGUGG	19758
8736	CCUUCGG G CAGCAGCG	4451	CGCUGCUG GCCAAAGCGAGUGAGGUCU CCGAAGGG	19759
8739	UUCGGGCA G CAGCGAGU	4452	ACUCGUG GCCAAAGCGAGUGAGGUCU UGCCCGAA	19760
8742	GGGCAGCA G CGUGUGUU	4453	AACACUG GCCAAAGCGAGUGAGGUCU UGCUGCC	19761
8746	AGCAGCA G UGUUCAAA	4454	UUUGAACA GCCAAAGCGAGUGAGGUCU UCGUGUCU	19762
8748	CAGCGAG G UUCAAGA	4455	UUUUUGAA GCCAAAGCGAGUGAGGUCU ACUGGUG	19763
8761	AAGAGAAG G UGACACG	4456	CGUGUCCA GCCAAAGCGAGUGAGGUCU CUUCUCUU	19764
8773	ACACGAA G CUCCUGAA	4457	UUCAGGAG GCCAAAGCGAGUGAGGUCU UUUCGUGU	19765

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8784	CCUGAAC G CCAGAGG	4458	CCUUCUG GCCGAAAGCGAGUGAGGUCU GGUUCAGG	19766
8794	CAGAGGA G UGAGUAC	4459	GUACUUA GCCGAAAGCGAGUGAGGUCU UCCUUCUG	19767
8799	GAGUGAA G UACGUCU	4460	AGCACGUA GCCGAAAGCGAGUGAGGUCU UUCACUCC	19768
8803	UGAAGUAC G UGCUCAU	4461	AUUGAGCA GCCGAAAGCGAGUGAGGUCU GUACUUA	19769
8805	AAGUACU G CUCAUGA	4462	UCAUUGAG GCCGAAAGCGAGUGAGGUCU ACGUACUU	19770
8826	ACCAACUG G UUGUGGC	4463	GCCACAA GCCGAAAGCGAGUGAGGUCU CAGUUGGU	19771
8829	AACUGGU G UGGGCGUU	4464	AAGCCCCA GCCGAAAGCGAGUGAGGUCU AACAGUU	19772
8833	GGUUGUG G CGUUUUG	4465	CAAAACG GCCGAAAGCGAGUGAGGUCU CCACAACC	19773
8835	UUGUGGC G UUUUUGC	4466	GCCAAAA GCCGAAAGCGAGUGAGGUCU GCCACAA	19774
8842	CGUUUUG G CCAGAGAA	4467	UUCUCUG GCCGAAAGCGAGUGAGGUCU CAAAAACG	19775
8855	AGAAAAAC G UCCAGAA	4468	UUCUGGA GCCGAAAGCGAGUGAGGUCU GUUUUUCU	19776
8865	CCAGAAU G UCCUCUG	4469	CGAGAGCA GCCGAAAGCGAGUGAGGUCU AUUCUGG	19777
8867	CAGAAUG G CUCUCAG	4470	CUCGAGG GCCGAAAGCGAGUGAGGUCU ACAUUCUG	19778
8893	UAGAAAG G UCAACAGC	4471	GCUGUUA GCCGAAAGCGAGUGAGGUCU CUUUCUUA	19779
8900	GGUCAAC G CAUGCAG	4472	CUGCAUUG GCCGAAAGCGAGUGAGGUCU UGUUGACC	19780
8905	ACAGCAAU G CAGCUUUG	4473	CAAGCTUG GCCGAAAGCGAGUGAGGUCU AUUGCUGU	19781
8908	GCAUACA G CUUUGGU	4474	ACCAAAG GCCGAAAGCGAGUGAGGUCU UGCAUUGC	19782
8915	AGCUUGG G UGCCAUGU	4475	ACAUGGCA GCCGAAAGCGAGUGAGGUCU CCAAAGCU	19783
8917	CUUUGGU G CCAUGUUU	4476	AAACAUG GCCGAAAGCGAGUGAGGUCU ACCCAAAG	19784
8922	GUUGCCAU G UUGAAGA	4477	UUCUCAA GCCGAAAGCGAGUGAGGUCU AUGGACCC	19785
8931	UUUGAAG G CAGAUCA	4478	UGAUUCUG GCCGAAAGCGAGUGAGGUCU UCUUCAAA	19786
8948	AUGGAGA G CGCCAGAG	4479	CUUCGGCG GCCGAAAGCGAGUGAGGUCU UCCUCCAU	19787
8950	GGAGGAG G CCAGAGAA	4480	UUCUCUG GCCGAAAGCGAGUGAGGUCU GCUCUCC	19788
8959	CCAGAGAA G CAGUAGAA	4481	UUCACUG GCCGAAAGCGAGUGAGGUCU UUCUCUGG	19789
8962	GAGAAGCA G UUGAAGAU	4482	AUCUCAA GCCGAAAGCGAGUGAGGUCU UGCUUCUC	19790
8989	GGGAGAG G UGGAUGAG	4483	CUCAUCCA GCCGAAAGCGAGUGAGGUCU CAUCUCCC	19791
9000	GAUGAGA G CGCAGGC	4484	GCCUCCG GCCGAAAGCGAGUGAGGUCU UCCUCAUC	19792
9002	UGAGGAG G CGAGGCAC	4485	GUCCUCG GCCGAAAGCGAGUGAGGUCU GCUCUCA	19793
9007	AGCGCAG G CACAUCUG	4486	CAGAUGG GCCGAAAGCGAGUGAGGUCU CUCGCGCU	19794
9015	GCACUUC G CGGGGGA	4487	UCCCCCG GCCGAAAGCGAGUGAGGUCU AGAUGUGC	19795
9026	GGGGGAU G UCACAUU	4488	AAGUGUA GCCGAAAGCGAGUGAGGUCU AUUCCCCC	19796
9035	UCACAUU G CAUUUACA	4489	UGUAAUG GCCGAAAGCGAGUGAGGUCU AAGUGUA	19797
9078	CCCGAGA G UUCGAAA	4490	UUUCCGA GCCGAAAGCGAGUGAGGUCU UCUCGGG	19798
9088	UCGGAAG G CCAAGGA	4491	UCCUUGG GCCGAAAGCGAGUGAGGUCU CUUUCGGA	19799
9098	CAAGGGA G CAGAGCCA	4492	UGGCUUC GCCGAAAGCGAGUGAGGUCU UUCUCCUG	19800
9103	GAGGAGA G CCAUUUG	4493	CCAAUUG GCCGAAAGCGAGUGAGGUCU UCUGCUUC	19801
9111	GCCAUUG G UCAUUGG	4494	CACAUGA GCCGAAAGCGAGUGAGGUCU CAAUGGC	19802
9117	UGGUCAU G UGGCUCG	4495	CCGAGCCA GCCGAAAGCGAGUGAGGUCU AUGAACCA	19803
9120	UUCAUUG G CUCGAGC	4496	GCUCGAG GCCGAAAGCGAGUGAGGUCU CACAUGAA	19804
9127	GGCUGGA G CUCGUUU	4497	AAAGCGAG GCCGAAAGCGAGUGAGGUCU UCCGAGCC	19805

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9131	CGGAGCUC G CUUUCUGG	4498	CCAGAAAG GCCGAAAGCGAGUGAGGUCU GAGCUCCG	19806
9141	UUUCUGGA G UUCGAGGC	4499	GCUCGAA GCCGAAAGCGAGUGAGGUCU UCCAGAAA	19807
9148	AGUUCGAG G CUCUGGGU	4500	ACCAGAG GCCGAAAGCGAGUGAGGUCU CUCGAAACU	19808
9155	GGCUCUGG G UUUCUCA	4501	UGAGAAA GCCGAAAGCGAGUGAGGUCU CCAGAGCC	19809
9177	GACCACUG G CUUGGAG	4502	CUUCCAAG GCCGAAAGCGAGUGAGGUCU CAGUGGUC	19810
9203	AGGAGGAG G UGUCGAGG	4503	CCUGGACA GCCGAAAGCGAGUGAGGUCU CUUCUCCU	19811
9205	GAGGAGGU G UCGAGGGC	4504	GCCUCGA GCCGAAAGCGAGUGAGGUCU ACCUCCUC	19812
9212	UGUCGAGG G CUUGGGCC	4505	GGCCCAAG GCCGAAAGCGAGUGAGGUCU CCUCGACA	19813
9218	GGGCUUGG G CCUCCAAA	4506	UUUGGAG GCCGAAAGCGAGUGAGGUCU CCAAGCCC	19814
9233	AAACUGG G UUACAUC	4507	GGAGUAA GCCGAAAGCGAGUGAGGUCU CCAGUUUU	19815
9243	UACAUCU G CGUGAGU	4508	ACUUCACG GCCGAAAGCGAGUGAGGUCU AGGAGUA	19816
9245	CAUCCUGC G UGAAGUUG	4509	CAACUUA GCCGAAAGCGAGUGAGGUCU GCAGGAUG	19817
9250	UGGUGNA G UUGGCACC	4510	GGUGCAA GCCGAAAGCGAGUGAGGUCU UUCACGCA	19818
9254	UGAUGUG G CACCCGGC	4511	GCCGGUG GCCGAAAGCGAGUGAGGUCU CAACUUA	19819
9261	GGCACCG G CCUGGGG	4512	CCCCCAG GCCGAAAGCGAGUGAGGUCU CGGGUGCC	19820
9269	GCCUGGG G CAAGAUCU	4513	AGAUUUG GCCGAAAGCGAGUGAGGUCU CCCAGGC	19821
9280	AGAUCUAU G CUGAUGAC	4514	GUCAUCAG GCCGAAAGCGAGUGAGGUCU AUAGAUCU	19822
9292	AUGACACA G CUGGCUUG	4515	CCAGCCAG GCCGAAAGCGAGUGAGGUCU UGUGUCAU	19823
9296	CACAGCUG G CUGGGACA	4516	UGUCCAG GCCGAAAGCGAGUGAGGUCU CAGCUGUG	19824
9308	GGACACC G CUAACGA	4517	UCUGAUG GCCGAAAGCGAGUGAGGUCU GGGUGUCC	19825
9319	UACAGGA G CUGACUUG	4518	CAAGUCAG GCCGAAAGCGAGUGAGGUCU UCUCGUGA	19826
9337	AAAAGNA G CUAAGGUG	4519	CACCUAG GCCGAAAGCGAGUGAGGUCU UUCAUUUU	19827
9343	AAGCUAG G UGCUUGAG	4520	CUCAAGCA GCCGAAAGCGAGUGAGGUCU CUUAGCUU	19828
9345	GUAAAGU G CUUGAGCU	4521	AGCUCAAG GCCGAAAGCGAGUGAGGUCU ACCUUAGC	19829
9351	GUGCUUGA G CUGCUUGA	4522	UCAAGCAG GCCGAAAGCGAGUGAGGUCU UCAAGCAC	19830
9354	CUUGAGCU G CUUGAUGG	4523	CCAUCAG GCCGAAAGCGAGUGAGGUCU AGCUCAG	19831
9372	GAACAUC G CGUCUUGC	4524	GCAAGACG GCCGAAAGCGAGUGAGGUCU CGAUGUUC	19832
9374	ACAUCGC G UCUGCCA	4525	UGCAAGA GCCGAAAGCGAGUGAGGUCU GCCGAUGU	19833
9379	GGCUCUU G CCAGGGCC	4526	GGCCUUG GCCGAAAGCGAGUGAGGUCU AAGAGCCC	19834
9385	UUGCCAGG G CCAUCAU	4527	AUGAUGG GCCGAAAGCGAGUGAGGUCU CCUGGCAA	19835
9396	AUCAUGA G CUCACCUA	4528	UAGGUGAG GCCGAAAGCGAGUGAGGUCU UCAUGAU	19836
9407	CACCUAUC G UCACAAAG	4529	CUUUGUGA GCCGAAAGCGAGUGAGGUCU GAUAGGUG	19837
9415	GUACAAA G UUUGAUA	4530	UUUCACAA GCCGAAAGCGAGUGAGGUCU UUUGUAC	19838
9418	ACAAAGU G UGAAGUG	4531	CACUUCA GCCGAAAGCGAGUGAGGUCU AACUUUGU	19839
9424	UUGUGAA G UGAUGCC	4532	GGCAUCA GCCGAAAGCGAGUGAGGUCU UUUCACAA	19840
9429	AAAGUGAU G GCGCCGCC	4533	GCCGGGC GCCGAAAGCGAGUGAGGUCU AUCACUUU	19841
9431	UAGUAUC G CCGGCUUG	4534	CAGCCGG GCCGAAAGCGAGUGAGGUCU GCAUCACU	19842
9436	UGGCCCG G CUGCUUG	4535	AUCAGCAG GCCGAAAGCGAGUGAGGUCU CGGGCGCA	19843
9439	GCCCGGU G CUGAUGA	4536	UCCAUCAG GCCGAAAGCGAGUGAGGUCU AGCCGGGC	19844
9454	GAAGAAC G UCAUGAU	4537	AUCAUGA GCCGAAAGCGAGUGAGGUCU GGUUCUUC	19845

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9463	UCAUGGAU G UUAUCUCC	4538	GGAGAUAA GCCGAAAGGCGAGUGAGGUU AUCCAUGA	19846
9491	GAGGGGA G UGGACAAG	4539	CUUGUCCA GCCGAAAGGCGAGUGAGGUU UCCGCCUC	19847
9499	GUGGACAA G UUGUCAAC	4540	GGUGACAA GCCGAAAGGCGAGUGAGGUU UUGUCCAC	19848
9502	GACAAUU G UCCAUAC	4541	GUAGGUGA GCCGAAAGGCGAGUGAGGUU AACUUGUC	19849
9511	UCACCUAG G CCCUAAAC	4542	GUUUTAGG GCCGAAAGGCGAGUGAGGUU GUAGGUGA	19850
9535	CCAACUAG G CGGUCCAG	4543	CUAGACGG GCCGAAAGGCGAGUGAGGUU CAGGUUGG	19851
9538	ACCUGGCC G UCCAGCUG	4544	CAGCUGGA GCCGAAAGGCGAGUGAGGUU GGCAGGU	19852
9543	GCCGUCCA G CUGGUGAG	4545	CUACCCAG GCCGAAAGGCGAGUGAGGUU UGGACGGC	19853
9547	UCCAGCUG G UGAGGAUG	4546	CAUCCUCA GCCGAAAGGCGAGUGAGGUU CAGCUGGA	19854
9571	GGGAAGGA G UGAUUGGC	4547	GCCAAUCA GCCGAAAGGCGAGUGAGGUU UCCUUCUC	19855
9578	AGUGAUUG G OCCAGAUU	4548	CAUCUGGG GCCGAAAGGCGAGUGAGGUU CAAUCACU	19856
9589	CAGAUAA G UGGAGAAA	4549	UUUCUCCA GCCGAAAGGCGAGUGAGGUU AUCAUCUG	19857
9622	GACCCAAA G UCAGGACC	4550	GUUCUCCA GCCGAAAGGCGAGUGAGGUU UUUGGGUC	19858
9633	AGGACUUG G CUGUUGA	4551	UCAAACAG GCCGAAAGGCGAGUGAGGUU CAGGUCCU	19859
9636	ACCUGGCU G UUUGAGAA	4552	UUCUCAAA GCCGAAAGGCGAGUGAGGUU AGCCAGGU	19860
9662	AAGACUA G CCGCAUGG	4553	CCAUGCGG GCCGAAAGGCGAGUGAGGUU UGAGUCUU	19861
9665	ACUCAGCC G CAUGGCUU	4554	CAGCCAUU GCCGAAAGGCGAGUGAGGUU GGCUGAGU	19862
9670	GCCGCAUG G CUGUCAGU	4555	ACUGACAG GCCGAAAGGCGAGUGAGGUU CAUGGGCC	19863
9673	GCAUGGCU G UCAGUGGA	4556	UCCACUGA GCCGAAAGGCGAGUGAGGUU AGCCAUUC	19864
9677	GCUGUCA G UGGAGAUU	4557	CAUCUCCA GCCGAAAGGCGAGUGAGGUU UGACAGCC	19865
9689	AGAAGCU G UGUGGUA	4558	UUUACCAC GCCGAAAGGCGAGUGAGGUU AGUCAUUC	19866
9691	AUGACUGU G UGGUAAAG	4559	CUUUACCA GCCGAAAGGCGAGUGAGGUU ACAGUCAU	19867
9694	ACUGUGUG G UAAAGCCC	4560	GGGCUUUA GCCGAAAGGCGAGUGAGGUU CACACAGU	19868
9699	GUGGUAAA G CCCCUGGA	4561	UCCAGGGG GCCGAAAGGCGAGUGAGGUU UUUACCAC	19869
9713	GGACGAUC G CUUUGCCA	4562	UGGCAAAAG GCCGAAAGGCGAGUGAGGUU GAUCGUCC	19870
9718	AUCGCUUU G CCACCUUG	4563	CGAGGUGG GCCGAAAGGCGAGUGAGGUU AAAGCGAU	19871
9726	GCCACUUC G CUCCACUU	4564	AAGUGGAG GCCGAAAGGCGAGUGAGGUU GAGGUGGC	19872
9742	UCCUCAAU G CUAUGUCA	4565	UGACAUAG GCCGAAAGGCGAGUGAGGUU AUUGAGGA	19873
9747	AUUGCUAU G UCAAAGGU	4566	ACCUUUGA GCCGAAAGGCGAGUGAGGUU AUAGCAUU	19874
9754	UGUCAAG G UUCGCAAA	4567	UUUGCGAA GCCGAAAGGCGAGUGAGGUU CUUUGACA	19875
9758	AAAGGUUC G CAAAGACA	4568	UGUCUUUG GCCGAAAGGCGAGUGAGGUU GAACCUUU	19876
9774	AUCCAAGA G UGGAACCC	4569	GGUUUCCA GCCGAAAGGCGAGUGAGGUU UCUUGGAU	19877
9783	UGGAACCC G UCAACUGG	4570	CCAGUUGA GCCGAAAGGCGAGUGAGGUU GGUUUCCA	19878
9795	ACUGGAUG G UAUGAUUG	4571	CAUCAUA GCCGAAAGGCGAGUGAGGUU CAUCCAGU	19879
9804	UAUGAUUG G CAGCAGGU	4572	ACCTGCUU GCCGAAAGGCGAGUGAGGUU CAAUCAUA	19880
9807	GAUGGCA G CAGGUUCC	4573	GGAACCUU GCCGAAAGGCGAGUGAGGUU UGCCAUAU	19881
9811	GGCAGCAG G UUCCAUUU	4574	AAAUUGAA GCCGAAAGGCGAGUGAGGUU CUGCUGCC	19882
9821	UCCAUUU G CUCAAACC	4575	GGUUUGAG GCCGAAAGGCGAGUGAGGUU AAAAUGGA	19883
9868	GAACACUG G UGGUUCUA	4576	UGGAACCA GCCGAAAGGCGAGUGAGGUU CAGGUUUC	19884
9871	CACUGGUG G UUCAUGC	4577	GCAUGGAA GCCGAAAGGCGAGUGAGGUU CACCAGUG	19885

Table V

9878	GGUUCUACU G CCGAGGAC	4578	GUUCUCGG GCCGAAAGGCGAGUGAGGUCU AUGGAACC	19886
9898	AUGAAUUG G UAGGCAGA	4579	UCUGCCUA GCCGAAAGGCGAGUGAGGUCU CAUUCUACU	19887
9902	AUGGUAG G CAGAGCUC	4580	GAGCUCUG GCCGAAAGGCGAGUGAGGUCU CUACCAAU	19888
9907	UAGGCAGA G CUGGCAUA	4581	UAUGCGAG GCCGAAAGGCGAGUGAGGUCU UCUGCCUA	19889
9911	CAGAGCUC G CAUAUCUC	4582	GAGAUUG GCCGAAAGGCGAGUGAGGUCU GAGCUCUG	19890
9925	CUCCAGGG G CCGGAUUG	4583	CCAUCCGG GCCGAAAGGCGAGUGAGGUCU CCTUGGAG	19891
9937	GAUGGAAC G UCCGCGAC	4584	GUCCGGGA GCCGAAAGGCGAGUGAGGUCU GUUCCAUC	19892
9941	GAACGUCC G CGACACUG	4585	CAGUGUCG GCCGAAAGGCGAGUGAGGUCU GGACGUUC	19893
9949	CGGACACU G CUUGUCUG	4586	CAGACAAG GCCGAAAGGCGAGUGAGGUCU AGUGUCGC	19894
9953	CACUGCUU G CUUGGCUA	4587	UAGCCAGA GCCGAAAGGCGAGUGAGGUCU AAGCAGUG	19895
9958	CUUGUCUG G UUAAGUUC	4588	AGACUUGA GCCGAAAGGCGAGUGAGGUCU CAGACAAG	19896
9963	CUGGCUAA G UCUAUUGC	4589	GCAUAAGA GCCGAAAGGCGAGUGAGGUCU UUAAGCCAG	19897
9970	AGUCUUAU G CCCAGAU	4590	CAUCUGGG GCCGAAAGGCGAGUGAGGUCU AUAAGACU	19898
9978	GCCCAGAU G UGGCUGCU	4591	AGCAGCCA GCCGAAAGGCGAGUGAGGUCU AUCUGGGC	19899
9981	CAGAUGUG G CUGCUUCU	4592	AGAAAGCAG GCCGAAAGGCGAGUGAGGUCU CACAUUCG	19900
9984	AUGUGGCU G CUUCUGUA	4593	UACAGAAG GCCGAAAGGCGAGUGAGGUCU AGCCACAU	19901
9990	CUGCUUCU G UACUUGCA	4594	UGGAAGUA GCCGAAAGGCGAGUGAGGUCU AGAAGCAG	19902
10011	AGAGACCU G CGGCUCAU	4595	AUGAGCCG GCCGAAAGGCGAGUGAGGUCU AGGUCUCU	19903
10014	GACUUGG G CUAUGGC	4596	GCCAUGAG GCCGAAAGGCGAGUGAGGUCU CGCAGGUC	19904
10021	GGUCUUG G CCAACGCC	4597	GGCGUUG GCCGAAAGGCGAGUGAGGUCU CAUGAGCC	19905
10027	UGGCCAAC G CCAUUGC	4598	GCAAUUG GCCGAAAGGCGAGUGAGGUCU GUUGGCCA	19906
10034	CGCCAUU G CUCCGUG	4599	CAGCGGAG GCCGAAAGGCGAGUGAGGUCU AAUUGGCG	19907
10039	UUUGUCC G CUGUCCU	4600	AGGGACAG GCCGAAAGGCGAGUGAGGUCU GGAGCAAA	19908
10042	GCUCGCU G UCCUUGUG	4601	CACAGGGA GCCGAAAGGCGAGUGAGGUCU AGCGAGC	19909
10048	CUGUCCU G UGAAUUG	4602	CCAAUUA GCCGAAAGGCGAGUGAGGUCU AGGACAG	19910
10057	UGAAUUG G UCCUACC	4603	GGUAGGGA GCCGAAAGGCGAGUGAGGUCU CCAAUUCA	19911
10077	AGAACAC G UGUUCCAU	4604	AUGGACCA GCCGAAAGGCGAGUGAGGUCU GUGGUUCU	19912
10080	ACCACUG G UCCAUGCA	4605	UGGAUGGA GCCGAAAGGCGAGUGAGGUCU CACGUUGU	19913
10090	CCAUCUAC G CAGGAGGA	4606	UCCUCCUG GCCGAAAGGCGAGUGAGGUCU AUGGAUGG	19914
10101	GGAGGAGA G UGGAUGAC	4607	GUCAUCCA GCCGAAAGGCGAGUGAGGUCU UCUCUCC	19915
10122	GAGGACAU G UUGGAGGU	4608	ACCUCCAA GCCGAAAGGCGAGUGAGGUCU AUGUCCUC	19916
10129	UGUUGGAG G UCUGGAAC	4609	GUUCCAGA GCCGAAAGGCGAGUGAGGUCU CUCCAACA	19917
10139	CUGGAACC G UGUUUGGA	4610	UCCAACA GCCGAAAGGCGAGUGAGGUCU GGUUCCAG	19918
10141	GAACCGU G UUUGGAUA	4611	UAUCCAAA GCCGAAAGGCGAGUGAGGUCU ACGGUUCC	19919
10183	AAACCCCA G UGGAGAAA	4612	UUUUCUCA GCCGAAAGGCGAGUGAGGUCU UGGGGUUU	19920
10196	GAAUGGA G UGACGUCC	4613	GGAGUCA GCCGAAAGGCGAGUGAGGUCU UCCAUIUC	19921
10201	GGAGUGAC G UCCCAUAU	4614	AUAUGGA GCCGAAAGGCGAGUGAGGUCU GUCAUUC	19922
10233	GACAUUC G UGUGGCG	4615	CUGCCACA GCCGAAAGGCGAGUGAGGUCU CAGAUGUC	19923
10235	CAUCUGU G UGGCAGCC	4616	GGCUGCCA GCCGAAAGGCGAGUGAGGUCU ACCAGAUG	19924
10238	CUGGUGU G CAGCCUGA	4617	UCAGGCUG GCCGAAAGGCGAGUGAGGUCU CACACCAG	19925

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10241	GUGUGCA G CCUGAUG	4618	CAAUCAGG GCCGAAAGCGAGUGAGGUCU UGCCACAC	19926
10250	CCUGAUG G CACAGAG	4619	CUCUUGG GCCGAAAGCGAGUGAGGUCU CAAUCAGG	19927
10258	GCACAGA G CCGAGCC	4620	GGCUCGGG GCCGAAAGCGAGUGAGGUCU UCUGUGC	19928
10264	GAGCCGA G CCAGUGG	4621	CCACUGG GCCGAAAGCGAGUGAGGUCU UCGGGCUC	19929
10269	CGAGCAC G UGGGAGA	4622	UCUGCCCA GCCGAAAGCGAGUGAGGUCU GUGGUCUG	19930
10273	CCAGUGG G CAGAAAC	4623	GUUUUCUG GCCGAAAGCGAGUGAGGUCU CCACGUGG	19931
10288	ACAUCAG G UGGCUAUC	4624	GAUAGCCA GCCGAAAGCGAGUGAGGUCU CUGGAUGU	19932
10291	UCCAGGUG G CUAUCAAC	4625	GUUGAUG GCCGAAAGCGAGUGAGGUCU CACUCGGA	19933
10303	UCAACCA G UCAGAGCA	4626	UGUCUGA GCCGAAAGCGAGUGAGGUCU UUGGUUGA	19934
10309	AAGUCAGA G CAUUCauc	4627	GAUGAUG GCCGAAAGCGAGUGAGGUCU UCUGACUU	19935
10329	GAUGAGA G UAUGUGGA	4628	UCCACAU GCCGAAAGCGAGUGAGGUCU UUCUCAUC	19936
10333	AGAAGUAU G UGGAUUA	4629	GUAAUCCA GCCGAAAGCGAGUGAGGUCU AUACUUCU	19937
10346	UAACAUGA G UUCACUA	4630	UUAGUGAA GCCGAAAGCGAGUGAGGUCU UCAUGUAA	19938
10378	CAACUUG G UUGAGGAC	4631	GUUCUCA GCCGAAAGCGAGUGAGGUCU CAAAGUUG	19939
10390	AGGACACA G UACUGUAG	4632	CUACAGUA GCCGAAAGCGAGUGAGGUCU UGUGUCCU	19940
10395	ACAGUACU G UAGAUAU	4633	AAUAUCUA GCCGAAAGCGAGUGAGGUCU AGUACUGU	19941
10413	AAUCAAUU G UAAUAAGA	4634	UCUAUUUA GCCGAAAGCGAGUGAGGUCU AAUUGAUU	19942
10430	CAUAUA G UAUGCAUA	4635	UAUGCAUA GCCGAAAGCGAGUGAGGUCU UUAUAUUG	19943
10434	AUAAGUAU G CAUAAAG	4636	CUUUUAUG GCCGAAAGCGAGUGAGGUCU AUACUUAU	19944
10442	GCAUAAA G UGUAGUUU	4637	AAACUACA GCCGAAAGCGAGUGAGGUCU UUUUAUGC	19945
10444	AUAARAAGU G UAGUUUA	4638	UAAACUA GCCGAAAGCGAGUGAGGUCU ACUUUAU	19946
10447	AAAGUUA G UUUUAUAG	4639	CUAUAATA GCCGAAAGCGAGUGAGGUCU UACACUUU	19947
10455	GUUUUA G UAGUAUUU	4640	AAUAACUA GCCGAAAGCGAGUGAGGUCU UAUAAAAC	19948
10458	UAUAUGUA G UAUUAAGU	4641	ACUAAUA GCCGAAAGCGAGUGAGGUCU UACTUAUA	19949
10455	AGUAUUUA G UGGUGUA	4642	UAACACCA GCCGAAAGCGAGUGAGGUCU UAAUAUCU	19950
10468	AUUUAGUG G UGUUAGUG	4643	CACUAACA GCCGAAAGCGAGUGAGGUCU CACUAAAU	19951
10470	UAGUGGU G UUAUGUA	4644	UACACUA GCCGAAAGCGAGUGAGGUCU ACCACUA	19952
10474	UGGUGUA G UGUAUAU	4645	UAUUUA GCCGAAAGCGAGUGAGGUCU UAACACCA	19953
10476	GUGUUAGU G UAAUAAGU	4646	ACUAUUUA GCCGAAAGCGAGUGAGGUCU ACUAACAC	19954
10483	UGUAUA G UUAAGAA	4647	UUUCUUA GCCGAAAGCGAGUGAGGUCU UAUUUAACA	19955
10506	AGGAGAA G UCAGGCG	4648	CGGCCUGA GCCGAAAGCGAGUGAGGUCU UUCUCCU	19956
10511	AAAGUCAG G CCGGAG	4649	CUUCCCG GCCGAAAGCGAGUGAGGUCU CUGACUUU	19957
10519	GCCGGAA G UUCGCC	4650	GGGGGAA GCCGAAAGCGAGUGAGGUCU UUCGCCGC	19958
10525	AAGUCCC G CCACCGA	4651	UCCGGUG GCCGAAAGCGAGUGAGGUCU GGGACUU	19959
10535	CACCGAA G UUGAGUAG	4652	CUACUA GCCGAAAGCGAGUGAGGUCU UUCGGUG	19960
10547	GAAGUGA G UAGACGU	4653	ACGUCUA GCCGAAAGCGAGUGAGGUCU UCAACUUC	19961
10547	UAGACG G UGUGGU	4654	AGGACGA GCCGAAAGCGAGUGAGGUCU CGUCUACU	19962
10549	UAGACGU G CUGCCUG	4655	GCAAGCAG GCCGAAAGCGAGUGAGGUCU ACCGUCUA	19963
10552	ACGGUGU G CCUGCGAC	4656	GUCGAG GCCGAAAGCGAGUGAGGUCU AGCACCGU	19964
10556	UGCUGGU G CGACUCAA	4657	UUGAGUG GCCGAAAGCGAGUGAGGUCU AGGCAGCA	19965

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10580	AGGACUGG G UGAACAAA	4658	UUUGUUCA GCCGAAAGGCGAGUGAGGUCU CCAGUCCU	19966
10589	UGAACAAA G CGCGAAG	4659	CUUCGCGG GCCGAAAGGCGAGUGAGGUCU UUUGUUCA	19967
10592	ACAAAGCC G CGAAGUGA	4660	UCACUUCG GCCGAAAGGCGAGUGAGGUCU GGCUUUUG	19968
10597	GCCGCGAA G UGAUCCAU	4661	AUGGAUCA GCCGAAAGGCGAGUGAGGUCU UUCGCGGC	19969
10606	UGAUCCAU G UAGCCCU	4662	AGGCUUA GCCGAAAGGCGAGUGAGGUCU AUGGAUCA	19970
10610	CGAUGAA G CCUCAGA	4663	UCUGAGG GCCGAAAGGCGAGUGAGGUCU UUAUAGG	19971
10622	UCAGAAC G UCUCGGA	4664	UUCGAGA GCCGAAAGGCGAGUGAGGUCU GGUUCUGA	19972
10645	CCCCACAU G UUGUAACU	4665	AGUUAACA GCCGAAAGGCGAGUGAGGUCU AUGUGGG	19973
10648	CACAUGUU G UACUUA	4666	UGAAGUUA GCCGAAAGGCGAGUGAGGUCU AACAUUG	19974
10659	ACTUCAA G CCAAUUG	4667	ACAUUGG GCCGAAAGGCGAGUGAGGUCU UUUGAAGU	19975
10666	AGCCCAU G UCAGACCA	4668	UGGUCUGA GCCGAAAGGCGAGUGAGGUCU AUTGGGCU	19976
10676	CAGACCAC G CUACGGCG	4669	CGCGUAG GCCGAAAGGCGAGUGAGGUCU GUGGUCUG	19977
10682	AGCUACG G CUUGCUAC	4670	GUAGCACG GCCGAAAGGCGAGUGAGGUCU CGUAGCGU	19978
10684	GUACGGC G UGUUACU	4671	GAGUAGCA GCCGAAAGGCGAGUGAGGUCU GCCGUAGC	19979
10686	UACGGCGU G CUACUCU	4672	CAGAGUAG GCCGAAAGGCGAGUGAGGUCU ACGCCGUA	19980
10694	GUACUCU G CGAGAGU	4673	ACUCUCG GCCGAAAGGCGAGUGAGGUCU AGAGUAGC	19981
10701	UGCGGAGA G UGCAGUCU	4674	AGACUUGCA GCCGAAAGGCGAGUGAGGUCU UCUCGCGA	19982
10703	CGGAGAGU G CAGUCUC	4675	GCAGACUG GCCGAAAGGCGAGUGAGGUCU ACUCUCG	19983
10706	AGAGUGCA G UCUGCGAU	4676	AUCGACAG GCCGAAAGGCGAGUGAGGUCU UGCACUCU	19984
10710	UGCAGUCU G CGAUAGUG	4677	CACUAUCG GCCGAAAGGCGAGUGAGGUCU AGACUGCA	19985
10716	CGCGAUA G UGCCCCAG	4678	UCGGGCA GCCGAAAGGCGAGUGAGGUCU UAUCCGAG	19986
10718	GGGAUAGU G CCGCAGGA	4679	UCCUGGG GCCGAAAGGCGAGUGAGGUCU ACUAUCGC	19987
10734	AGGACUGG G UUAACCAA	4680	UUUGUUA GCCGAAAGGCGAGUGAGGUCU CCAGUCCU	19988
10744	UAACAAAG G CAAACCAA	4681	UUGUUUG GCCGAAAGGCGAGUGAGGUCU CUUUGUUA	19989
10754	AAACCAAC G CCCCACGC	4682	GCUGGGG GCCGAAAGGCGAGUGAGGUCU GUUGUUU	19990
10761	CGCCCCAC G CGGCCCUA	4683	UAGGCGG GCCGAAAGGCGAGUGAGGUCU GUGGGCG	19991
10764	CCACGGG G CCUAGCC	4684	GGCUAGG GCCGAAAGGCGAGUGAGGUCU CGCGUGGG	19992
10770	CGGCCCUA G CCCCAGUA	4685	UACCGGG GCCGAAAGGCGAGUGAGGUCU UAGGGCG	19993
10776	UAGCCCCG G UAUUGUG	4686	CACCAUA GCCGAAAGGCGAGUGAGGUCU CGGGGCUA	19994
10782	CGGUAAUG G UGUUAACC	4687	GGUUAACA GCCGAAAGGCGAGUGAGGUCU CAUUAACG	19995
10784	GUAAUGGU G UUAACCAAG	4688	CUGGUUA GCCGAAAGGCGAGUGAGGUCU ACCAUUAC	19996
10794	UAACCAAG G CGAAGGA	4689	UCCUUUC GCCGAAAGGCGAGUGAGGUCU CCUGGUUA	19997
10809	GACUAGAG G UYAGAGA	4690	UCCUUA GCCGAAAGGCGAGUGAGGUCU CUCUAGUC	19998
10824	GAGACCC G CGGUUUA	4691	UUAACCG GCCGAAAGGCGAGUGAGGUCU GGGGUCUC	19999
10827	AGCCCGG G UUAUAGU	4692	ACUUUA GCCGAAAGGCGAGUGAGGUCU CGCGGGU	20000
10834	GGUUUA G UGCACGC	4693	CGGUGCA GCCGAAAGGCGAGUGAGGUCU UUUAAACC	20001
10836	UUUAAGU G CACGGCC	4694	GGGCGUG GCCGAAAGGCGAGUGAGGUCU ACUUUAA	20002
10841	UAGACAG G CCAGCCU	4695	AGGUGGG GCCGAAAGGCGAGUGAGGUCU CGUGCACU	20003
10846	ACGGCCCA G CCUGACUG	4696	CAGUCAG GCCGAAAGGCGAGUGAGGUCU UGGGCGCU	20004
10857	UGACUGAA G CUGUAGGU	4697	ACCUACAG GCCGAAAGGCGAGUGAGGUCU UUCAGUCA	20005

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10860	CUGAAGCU G UAGUUCAG	4698	CUGACCUA GCCGAAAGGCGAGUGAGGUCU AGCUUCAG	20006
10864	AGCUGUAG G UCAGGGGA	4699	UCCCCUGA GCCGAAAGGCGAGUGAGGUCU CUACAGCU	20007
10883	GACUAGAG G UUAGUGGA	4700	UCCACUAA GCCGAAAGGCGAGUGAGGUCU CUCUAGUC	20008
10887	AGAGUUUA G UGAGACC	4701	GGUCUCA GCCGAAAGGCGAGUGAGGUCU UAAACUCU	20009
10898	GAGACCC G UGCCAAA	4702	UUUGGCA GCCGAAAGGCGAGUGAGGUCU GGGGUCUC	20010
10900	GACCCCG G CCACAAA	4703	UUUUGG GCCGAAAGGCGAGUGAGGUCU ACGGGGUC	20011
10924	ACAAACA G CAUAUUGA	4704	UCAUAUG GCCGAAAGGCGAGUGAGGUCU UGUUUUGU	20012
10960	GAUCUUCU G CUCUGCAC	4705	GUGCAGAG GCCGAAAGGCGAGUGAGGUCU AGAAGAUC	20013
10965	UCUGGUCU G CACAACCA	4706	UGGUUGUG GCCGAAAGGCGAGUGAGGUCU AGAGCAGA	20014
10974	CACAACCA G CCACACGG	4707	CCGUGUG GCCGAAAGGCGAGUGAGGUCU UGGUUUGU	20015
10982	GCCACAG G CACAGUGC	4708	GCACUGU GCCGAAAGGCGAGUGAGGUCU CGUGUGGC	20016
10987	ACGCACA G UGCGCCGA	4709	UGGCGCA GCCGAAAGGCGAGUGAGGUCU UGUGCCGU	20017
10989	GGCAGU G CGCGACA	4710	UGUCGCG GCCGAAAGGCGAGUGAGGUCU ACUGUGCC	20018
10991	CACAGUC G CCGACAAU	4711	AUUGUCG GCCGAAAGGCGAGUGAGGUCU GCACUGUG	20019
11001	CGACAAUG G UGCGUGGU	4712	ACCAGCCA GCCGAAAGGCGAGUGAGGUCU CAUUGUCG	20020
11004	CAUUGUG G CUGGUGGU	4713	ACCACCA GCCGAAAGGCGAGUGAGGUCU CACCAUUG	20021
11008	GGUGGUG G UGUGCGA	4714	UCGCACA GCCGAAAGGCGAGUGAGGUCU CAGCCACC	20022
11011	GGCUGUG G UGCAGAA	4715	UUCUCGA GCCGAAAGGCGAGUGAGGUCU CACCAGCC	20023
11013	CUGGUGGU G CGAGACA	4716	UGUUCUG GCCGAAAGGCGAGUGAGGUCU ACCACCAG	20024

Input Sequence = AF196835. Cut Site = G/Y

Arm Length = 8. Core Sequence = GCCGAAAGGCGAGUCaaGGuCu

AF196835 West Nile virus strain NY99-flamingo382-99, complete genome

Table VI: WNV DNAzyme and Target Sequence

Pos	Substrate	Seq ID	DNAzyme Sequence	Seq ID
142	CUGUCAAU A UGCUAAAA	20	TTTGTAGCA GGCTAGCTACAACGA ATTGACAG	20025
196	AGAGGGCU A UGUUGAGC	26	GCTCAACA GGCTAGCTACAACGA AGCCCTCT	20026
228	GGGCCAAU A CGAUUUGU	29	ACAAATCG GGCTAGCTACAACGA ATTGGCCC	20027
379	CCAGUGCU A UCAAUCGG	53	CCGATTGA GGCTAGCTACAACGA AGCACTGG	20028
469	GAGCAGUU A CCCUCUCU	63	AGAGAGGG GGCTAGCTACAACGA AACTGCTC	20029
514	UAAUUGCU A CUGACGUC	70	GACGTCAG GGCTAGCTACAACGA AGCATTTA	20030
564	AAGAACCU A UGCAUUGU	76	ACAATGCA GGCTAGCTACAACGA AGTTCCTT	20031
593	UGUGGGAU A CAUGUGCG	79	CGCACATG GGCTAGCTACAACGA ATCCACAC	20032
607	GCGAUGAU A CUAUCACU	80	AGTGATAG GGCTAGCTACAACGA ATCATCGC	20033
610	AUGAUACU A UCACUUAU	81	ATAAGTGA GGCTAGCTACAACGA AGTATCAT	20034
617	UAUCACUU A UGAAUGCC	84	GGCATTCG GGCTAGCTACAACGA AAGTGATA	20035
689	AGCAGUCU A CGUCAGGU	92	ACCTGACG GGCTAGCTACAACGA AGACTGCT	20036
698	CGUCAGGU A UGGAAGAU	94	ATCTTCCA GGCTAGCTACAACGA ACCTGACG	20037
824	CACAAGGU A UUUGGUAA	101	TTACCAAA GGCTAGCTACAACGA ACCTGTGT	20038
866	CCCUGGAU A UGCCCUGG	108	CCAGGGCA GGCTAGCTACAACGA ATCCAGGG	20039
939	GUCGUGCU A UUGCUUUU	117	AAAAGCAA GGCTAGCTACAACGA AGCACGAC	20040
962	CCCAGCUU A CAGCUUCA	123	TGAAGCTG GGCTAGCTACAACGA AAGCTGGG	20041
1063	GCGUGACU A UCAUGUCU	136	AGACATGA GGCTAGCTACAACGA AGTCACGC	20042
1084	ACAAGCCU A CCAUCGAU	140	ATCGATTG GGCTAGCTACAACGA AGGCTTGT	20043
1108	UGAUGAAU A UGGAGGCG	142	CGCCTCCA GGCTAGCTACAACGA ATTATCA	20044
1142	CCGCAGUU A UUGCUAUU	146	AATAGCAA GGCTAGCTACAACGA AACTGCGG	20045
1148	UUAUUGCU A UUUGGCUA	148	TAGCCAAA GGCTAGCTACAACGA AGCAATAA	20046
1156	AUUUGGCU A CCGUCAGC	151	GCTGACGG GGCTAGCTACAACGA AGCCAAAT	20047
1287	UGCGGAUU A UUUGGCAA	161	TTGCCAAA GGCTAGCTACAACGA AATCCGCA	20048
1333	CCUGUCUCU A CCAAGGCA	168	TGCCTTGG GGCTAGCTACAACGA AGAGCAGG	20049
1369	AAGAGAAU A UCAAGUAC	172	GTACTTGA GGCTAGCTACAACGA ATTCTCTT	20050
1376	UAUCAAGU A CGAAGUGG	174	CCACTTCG GGCTAGCTACAACGA ACTTGATA	20051
1408	GACCACU A CUGUGGAG	180	CTCCACAG GGCTAGCTACAACGA AGTTGGTC	20052
1430	CGGAAACU A CUCCACAC	182	GTGTGGAG GGCTAGCTACAACGA AGTTCCG	20053
1493	GCCUUCAU A CACACUAA	192	TTAGTGTG GGCTAGCTACAACGA ATGAAGGC	20054
1514	UGGAGAAU A UGGAGAGG	195	CCTCTCCA GGCTAGCTACAACGA ATTCTCCA	20055
1568	CAUUGCAU A CUACGUGA	198	TCACGTAG GGCTAGCTACAACGA ATGCATTG	20056
1571	UGCAUACU A CGUGAUGA	199	TCATCACG GGCTAGCTACAACGA AGTATGCA	20057
1657	CUGGAAGU A CUGUGUGG	211	CCACACGA GGCTAGCTACAACGA ACTTCCAG	20058
1871	AACAACCU A UGGCGUCU	239	AGACGCCA GGCTAGCTACAACGA AGTTGTGT	20059
1952	AUUGCAGU A CACUGGCA	254	TGCCAGTG GGCTAGCTACAACGA ACTGCAAT	20060
1984	AAGUUCU A UCUCGUCA	258	TGACGAGA GGCTAGCTACAACGA AGGAACTT	20061
2114	AGACUCAU A CAUAGUGG	282	CCACTATG GGCTAGCTACAACGA ATGAGTCT	20062
2191	AAGCCUUU A CAACCACC	291	GGTGTGTT GGCTAGCTACAACGA AAAGGCTT	20063
2532	GUGUUCAU A CACAAUGA	343	TCATTGTG GGCTAGCTACAACGA ATGAACAC	20064
2564	GGACCGGU A CAAGUAUU	345	AATACTTG GGCTAGCTACAACGA ACCGGTCC	20065
2570	GUACAAGU A UUACCCUG	346	CAGGGTAA GGCTAGCTACAACGA ACTTGTAC	20066
2573	CAAGUAUU A CCCUGAAA	348	TTTCAGGG GGCTAGCTACAACGA AATACTTG	20067
2640	UGCGGUCU A CGAUCAGU	356	ACTGATCG GGCTAGCTACAACGA AGACCGCA	20068
2759	GGGAAGU A CAAGUCAG	370	CTGACTTG GGCTAGCTACAACGA ACATTCCC	20069
2833	GAAAGAGU A UUUUAUUU	376	AAATAAAA GGCTAGCTACAACGA ACTCTTTC	20070
2838	AGUAUUUU A UUUGCACC	380	GGTGCAAA GGCTAGCTACAACGA AAAATACT	20071
3068	CCUGUCCU A UUGGAUUG	413	CAATCCAA GGCTAGCTACAACGA AGGACAGG	20072
3094	UCAUAGAU A CGUGGAAG	417	CTTCCACG GGCTAGCTACAACGA ATCATTGA	20073
3139	AAUCAUGU A CGUGGCCU	423	AGGCCACG GGCTAGCTACAACGA ACATGATT	20074
3157	AGACGCAU A CCUUGUGG	424	CCACAAGG GGCTAGCTACAACGA ATGGCTCT	20075
3198	UUGAUAAU A CCAGUCAC	430	GTGACTGG GGCTAGCTACAACGA ATTATCAA	20076
3248	ACCUGGGU A CAAGACAC	434	GTGTCTTG GGCTAGCTACAACGA ACCCAGGT	20077
3305	CUUCGAUU A CUGCCCAG	440	CTGGGCAG GGCTAGCTACAACGA AATCGAAG	20078
3319	CAGGAACU A CGGUCACC	441	GGTGACCG GGCTAGCTACAACGA AGTTCCTG	20079
3423	UGCACCUU A CCACCACU	448	AGTGTGTT GGCTAGCTACAACGA AAGGTGCA	20080
3437	ACUGCGCU A CCAAACUG	449	CAGTTTGG GGCTAGCTACAACGA AGCGCAGT	20081
3461	CUGUUGGU A UGGUAUGG	451	CCATACCA GGCTAGCTACAACGA ACCAACAG	20082

Table VI

3466	GGUAUGGU A UGGAUAUC	452	GATCTCCA GGCTAGCTACAACGA ACCATACC	20083
3527	GAAUGCUU A UAAUGCUG	457	CAGCATTG GGCTAGCTACAACGA AAGCATTG	20084
3538	AUGCUGAU A UGAUUGAC	459	GTCAATCA GGCTAGCTACAACGA ATCAGCAT	20085
3634	UGCCAGCU A UACUGAUU	476	AATCAGTA GGCTAGCTACAACGA AGCTGGCA	20086
3636	CCAGCUAU A CUGAUUGC	477	GCAATCAG GGCTAGCTACAACGA ATAGCTGG	20087
3673	GGGGCAUU A CUUACACU	485	AGTGTAAG GGCTAGCTACAACGA AATGCCCC	20088
3677	CAUUAUUU A CACUGAUG	487	CATCAGTG GGCTAGCTACAACGA AAGTAATG	20089
3690	GAUGUGUU A CGCUAUGU	489	ACATAGCG GGCTAGCTACAACGA AACACATC	20090
3695	GUUACGCU A UGUCAUUC	490	AGATGACA GGCTAGCTACAACGA AGCGTAAC	20091
3750	GACGUGGU A CACUUGGC	501	GCCAAAGT GGCTAGCTACAACGA ACCACGTC	20092
3780	UUCAAAGU A CAACCAGU	506	ACTGGTTG GGCTAGCTACAACGA ATCTTGAA	20093
3793	CAGUGUUU A UGGUGGCA	509	TGCCACCA GGCTAGCTACAACGA AAACACTG	20094
3878	AAUGGCUU A UCACGAUG	528	CATCGTGA GGCTAGCTACAACGA AAGCCATT	20095
3951	UGGAUGAU A CUGAGAGC	539	GCTCTCAG GGCTAGCTACAACGA ATCATCCA	20096
4046	GGAUUGUU A CAGGAUAC	551	GTATCCTG GGCTAGCTACAACGA ACACATCC	20097
4053	UACAGGAU A CUGCUGUU	552	AACAGCAG GGCTAGCTACAACGA ATCCTGTA	20098
4134	AGUCUGCU A UGCUUGGC	559	GCCAAAGT GGCTAGCTACAACGA AGCAGACT	20099
4321	CAAUGACU A UCGCGGGG	584	CCCCGCGA GGCTAGCTACAACGA AGTCATTG	20100
4372	CAACAGAU A UGUGGAUU	596	AATCCACA GGCTAGCTACAACGA ATCTGTTG	20101
4423	CAGAAAUU A CAGGCUUG	602	CGAGCCTG GGCTAGCTACAACGA AATTTCTG	20102
4509	UGGAAGAU A UGGAUGCU	611	AGCATCCA GGCTAGCTACAACGA ATCTTCCA	20103
4547	UAGUGCGU A CACCCCUU	618	AGGGGGTG GGCTAGCTACAACGA ACGCACTA	20104
4601	UCUCCAAU A CACAAAGA	630	TCTTTGTG GGCTAGCTACAACGA ATTGGAGA	20105
4649	AAAGGAGU A CAAAAGG	634	CCTTTTGT GGCTAGCTACAACGA ACTCCTTT	20106
4679	CGGCGUCU A CAGGAUCA	636	TGATCCTG GGCTAGCTACAACGA AGACGCCG	20107
4712	CGGCAGUU A UCAAGCAG	641	CTGCTTGA GGCTAGCTACAACGA AACTGCCG	20108
4765	UUUGGCAU A CAACAAA	650	TTTTGTTG GGCTAGCTACAACGA ATGCCAAA	20109
4814	GGACCAU A CUGGGGCA	653	TGCCCCAG GGCTAGCTACAACGA ATGGGTCC	20110
4847	ACUUUGUU A CGGAGGAC	659	GTCCTCCG GGCTAGCTACAACGA AACAAAGT	20111
5060	UGGGCUUU A UGGCAAUG	678	CATTGCCA GGCTAGCTACAACGA AAAGCCCA	20112
5093	CGGCUCAU A CAUAAGCG	682	CGCTTATG GGCTAGCTACAACGA ATGAGCCG	20113
5184	AUCACUGU A CUGGAUCU	689	AGATCCAG GGCTAGCTACAACGA ACAGTGAT	20114
5339	CAUCCGGU A CCAGACAU	702	ATGCTCTG GGCTAGCTACAACGA ACCGGATG	20115
5404	GUCAUGCU A CCCUCACC	709	GGTGAGGG GGCTAGCTACAACGA AGCATGAC	20116
5447	GCCGAACU A CAACCUGU	714	ACAGGTTG GGCTAGCTACAACGA AGTTCGGC	20117
5510	AAGAGGUU A CAUUUCCA	724	TGGAATAT GGCTAGCTACAACGA AACCTCTT	20118
5550	GCGGCAAU A UUCAUGAC	730	GTCATGAA GGCTAGCTACAACGA ATTGCCCG	20119
5619	UCCGACUU A CAGACUGA	745	TCAGTCTG GGCTAGCTACAACGA AAGTCGGA	20120
5657	CUCUGGUA A CGAAUGGA	750	TCCATTCG GGCTAGCTACAACGA ATCCAGAG	20121
5675	CACAGAAU A CACCGGGA	752	TCCCGGTG GGCTAGCTACAACGA ATTCTGTG	20122
5739	CUUUGCCU A CAACGUGC	762	GCACGTTG GGCTAGCTACAACGA AGGCAAAG	20123
5783	AAAGUCGU A CGAGACGG	767	CCGTCTCG GGCTAGCTACAACGA ACGACTTT	20124
5795	GACGAGU A CCCAAAUU	768	ATTTTGGG GGCTAGCTACAACGA ACTCCGTC	20125
5830	ACUUUGUU A UCACAACA	774	TGTTGTGA GGCTAGCTACAACGA AACAAAGT	20126
5844	ACAGACAU A UCUGAAAU	776	ATTTTCTG GGCTAGCTACAACGA ATGCTCTG	20127
5995	GUGGACGU A UCGGUAGA	787	TCTACCGA GGCTAGCTACAACGA ACGTCCAC	20128
6029	UGAUGAGU A CUGUUUUG	793	CATAACAG GGCTAGCTACAACGA ACTCATCA	20129
6035	GUACUGUU A UGGGGGGC	795	GCCCCCCA GGCTAGCTACAACGA AACAGTAC	20130
6140	UCAAUUCU A CCAACCAG	806	CTGGTTGG GGCTAGCTACAACGA AGAATTGA	20131
6162	GAGAAGGU A UAUACCAU	807	ATGGTATA GGCTAGCTACAACGA ACCTTCTC	20132
6164	GAAGGUUU A UACCAUGG	808	CCATGGTA GGCTAGCTACAACGA ATACCTTC	20133
6166	AGGUUAUU A CCAUGGAU	809	ATCCATGG GGCTAGCTACAACGA ATATACCT	20134
6182	UGGGGAUU A CCGGCUCA	810	TGAGCCGG GGCTAGCTACAACGA ATTCCCCA	20135
6257	CGUGGCUU A CAAGGUUG	820	CAACCTTG GGCTAGCTACAACGA AAGCCAGC	20136
6284	AGUGUUAU A CCACGACC	823	GGTCGTGG GGCTAGCTACAACGA ATGACACT	20137
6416	CAGGGUGU A CUCGGAUC	838	GATCCGAG GGCTAGCTACAACGA ACACCCTG	20138
6551	CACCAUGU A CGUUGUGG	858	CCACAACG GGCTAGCTACAACGA ACATGGTG	20139
6645	AUUGCCUU A UUGAGUGU	868	ACACTCAA GGCTAGCTACAACGA AAGGCAAT	20140
6669	AUGGAGU A UUCUUCU	870	AGGAAGAA GGCTAGCTACAACGA ACTCCCAT	20141
7049	GUCACUGU A CGCUGUGA	934	TCACAGCG GGCTAGCTACAACGA ACAGTGAC	20142
7106	GUCAGAUU A CAUCAACA	944	TGTTGATG GGCTAGCTACAACGA AATCTGAC	20143
7152	AGUGCACU A UUCACACU	952	AGTGTGAA GGCTAGCTACAACGA AGTGCACT	20144

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7246	UCACCGUU A CGGUAACA	969	TGTTACCG GGCTAGCTACAACGA AACGGTGA	20145
7280	UUGCCACU A UGCCUACA	977	TGTAGGCA GGCTAGCTACAACGA AGTGGCAA	20146
7286	CUAUGCCU A CAUGGUUC	978	GAACCATG GGCTAGCTACAACGA AGGCATAG	20147
7500	AAGACAGU A CGAGAAGC	1000	GCTTCTCG GGCTAGCTACAACGA ACTGTCTT	20148
7629	UCAUGUCU A UCCAUAAC	1017	GTTATGGA GGCTAGCTACAACGA AGACATGA	20149
7760	CACUAGGU A CCGCAAAG	1030	CTTTGCGG GGCTAGCTACAACGA ACCTAGTG	20150
7946	UUGGUGUU A CUAUAUGG	1051	CCATATAG GGCTAGCTACAACGA AACACCAA	20151
7949	GUGUUAU A UAUGGCAA	1052	TTGCCATA GGCTAGCTACAACGA AGTAACAC	20152
7951	GUUACUAU A UGGCAACC	1053	GGTTGCCA GGCTAGCTACAACGA ATAGTAAC	20153
7988	CAGAGGGU A CACAAAGG	1056	CCTTTGTG GGCTAGCTACAACGA ACCCTCTG	20154
8036	GCAAAGUU A UGGAUGGA	1060	TCCATCCA GGCTAGCTACAACGA AACTTTGC	20155
8081	UGUGUUCU A CAGACCUU	1065	AAGGTCTG GGCTAGCTACAACGA AGAACACA	20156
8240	CUGCCCUU A CAUGCCGA	1087	TCGGCATG GGCTAGCTACAACGA AGGGGCAG	20157
8285	ACGCCGGU A UGGGGGGG	1091	CCCCCACA GGCTAGCTACAACGA ACCGGCGT	20158
8339	CGAGAUGU A UUGGGUGA	1097	TCACCCAA GGCTAGCTACAACGA ACATCTCG	20159
8370	AAUGUGGU A CAUUCAGU	1102	ACTGAATG GGCTAGCTACAACGA ACCACATT	20160
8383	CAGUGAAU A UGACCAGC	1105	GCTGGTCA GGCTAGCTACAACGA ATTCACTG	20161
8441	ACCCCAAU A CGAGGAAG	1108	CTTCTCTG GGCTAGCTACAACGA ATTGGGGT	20162
8549	GCGUGAGU A CAGUUCGA	1117	TCGAATCG GGCTAGCTACAACGA ACTCACGC	20163
8585	CCACCAU A UAGAACCU	1120	AGGTTCTA GGCTAGCTACAACGA ATGGGTGG	20164
8600	CUGGAACU A UCACGGCA	1122	TGCCGTGA GGCTAGCTACAACGA AGTTCCAG	20165
8612	CGGCAGUU A UGAUGUGA	1125	TCACATGA GGCTAGCTACAACGA AACTGCCG	20166
8701	CGAAUGUU A CCACCAUG	1136	CATGTGTG GGCTAGCTACAACGA AACATTCTG	20167
8725	CUGACACU A CUCCCUUC	1137	GAAGGGAG GGCTAGCTACAACGA AGTGTGAG	20168
8801	AGUGAAGU A CGUGCUCA	1144	TGAGCAGG GGCTAGCTACAACGA ACTTCACT	20169
9041	UUGCAUUU A CAACAUGA	1173	TCATGTTG GGCTAGCTACAACGA AAATGCAA	20170
9236	ACUGGGUU A CAUCCUGC	1199	GCAGGATG GGCTAGCTACAACGA AACCCAGT	20171
9278	CAAGAUCU A UGCUGAUG	1203	CATCAGCA GGCTAGCTACAACGA AGATCTTG	20172
9404	GCUCACCU A UCGUCACA	1215	TGTGACGA GGCTAGCTACAACGA AGGTGAGC	20173
9466	UGGAUGUU A UCUCGAGA	1221	TCTGGAGA GGCTAGCTACAACGA AACATCCA	20174
9509	UGUCACCU A CGCCCUAA	1227	TTAGGGCG GGCTAGCTACAACGA AGGTGACA	20175
9745	UCAAUGCU A UGUCAAAG	1249	CTTTGACA GGCTAGCTACAACGA AGCATTGA	20176
9797	UGGAUGGU A UGAUUGGC	1255	GCCAATCA GGCTAGCTACAACGA ACCATCCA	20177
9915	GCUCGCAU A UCUCGAGG	1273	CCTGGAGA GGCTAGCTACAACGA ATGCGAGC	20178
9968	UAAGUCUU A UGCCCAGA	1282	TCTGGGCA GGCTAGCTACAACGA AAGACTTA	20179
9992	GCUCUGUU A CUUCCACA	1285	TGTGGAAG GGCTAGCTACAACGA ACAGAAGC	20180
10063	GGGUCCCU A CCGGAAGA	1295	TCTTCCGG GGCTAGCTACAACGA AGGGACCC	20181
10208	CGUCCCAU A UUCAGGAA	1304	TTCTGTAA GGCTAGCTACAACGA ATGGGACG	20182
10294	AGGUGGCU A UCAACCAA	1310	TTGGTTGA GGCTAGCTACAACGA AGCCACCT	20183
10331	UGAGAAGU A UGUGGAUU	1315	AATCCACA GGCTAGCTACAACGA ACTTCTCA	20184
10340	UGUGGAUU A CAUGAGUU	1317	AACTCATG GGCTAGCTACAACGA AATCCACA	20185
10361	AAAGAGAU A UGAAGACA	1321	TGTCTTCA GGCTAGCTACAACGA ATCTCTTT	20186
10392	GACACAGU A CUGUAGAU	1325	ATCTACAG GGCTAGCTACAACGA ACTGTGTC	20187
10401	CUGUAGAU A UUAUAUCA	1327	TGATTTAA GGCTAGCTACAACGA ATCTACAG	20188
10426	UAGACAAU A UAAGUAUG	1335	CATACTTA GGCTAGCTACAACGA ATTGTCTA	20189
10432	AUAUAAGU A UGCAUAAA	1337	TTTATGCA GGCTAGCTACAACGA ACTTATAT	20190
10452	GUAGUUUU A UAGUAGUA	1343	TACTACTA GGCTAGCTACAACGA AAAACTAC	20191
10460	AUAGUAGU A UUAUGUGG	1346	CCACTAAA GGCTAGCTACAACGA ACTACTAT	20192
10679	ACCACGCU A CGGCGUGC	1375	GCACGCCG GGCTAGCTACAACGA AGCGTGGT	20193
10689	GGCGUGCU A CUCUGCGG	1376	CCGCAGAG GGCTAGCTACAACGA AGCACGCC	20194
10928	AACAGCAU A UGACACC	1397	GGTGTCAA GGCTAGCTACAACGA ATGCTGTT	20195
63	CAAUUAAC A CAGUGCGA	1412	TCGCACTG GGCTAGCTACAACGA GTTAATTG	20196
85	UUCUUAAG A CGAAGAUC	1416	GATCTTCG GGCTAGCTACAACGA GCTAAGAA	20197
265	UCAGGUUC A CAGCAAUU	1445	AATTGCTG GGCTAGCTACAACGA GAACCTGA	20198
335	GAUGAAAC A CCUUCUGA	1457	TCAGAAGG GGCTAGCTACAACGA GTTTCATC	20199
436	UUGCAGUC A UGAUUGGC	1473	GCCAATCA GGCTAGCTACAACGA GACTGCAA	20200
523	CUGACGUC A CAGAUGUC	1489	GACATCTG GGCTAGCTACAACGA GACGTCAG	20201
532	CAGAUGUC A UCACGAUU	1491	AATCGTGA GGCTAGCTACAACGA GACATCTG	20202
535	AUGUCAUC A CGAUUCCA	1492	TGGAATCG GGCTAGCTACAACGA GATGACAT	20203
568	ACCUAUGC A UUGUCAGA	1500	TCTGACAA GGCTAGCTACAACGA GCATAGGT	20204
595	UGGGAUAC A UGUGCGAU	1503	ATCGCACA GGCTAGCTACAACGA GTATCCCA	20205
613	AUACUAUC A CUUAUGAA	1505	TTCATAAG GGCTAGCTACAACGA GATAGTAT	20206

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658	CAGAAGAC A UCGACUGU	1514	ACAGTCGA GGCTAGCTACAACGA GTCTTCTG	20207
673	GUUGGUGC A CAAAGUCA	1516	TGACTTTG GGCTAGCTACAACGA GCACCAAC	20208
709	GAAGAUGC A CCAAGACA	1522	TGTCTTGG GGCTAGCTACAACGA GCATCTTC	20209
717	ACCAAGAC A CGCCACUC	1525	GAGTGGCG GGCTAGCTACAACGA GTCTTGGT	20210
722	GACACGCC A CUCAAGAC	1527	GTCTTGAG GGCTAGCTACAACGA GGCCTGTC	20211
744	CGGAGGUC A CUGACAGU	1531	ACTGTCTG GGCTAGCTACAACGA GACCTCCG	20212
759	GUGCAGAC A CACGGAGA	1535	TCTCCGTG GGCTAGCTACAACGA GTCTGCAC	20213
761	GCAGACAC A CGGAGAAA	1536	TTTCTCCG GGCTAGCTACAACGA GTGTCTGC	20214
772	GAGAAAGC A CUCUAGCG	1537	CGCTAGAG GGCTAGCTACAACGA GCTTTCTC	20215
808	UGGACAGC A CCAAGGCC	1543	GGCCTTGG GGCTAGCTACAACGA GCTGTCCA	20216
817	CCAAGGCC A CAAGUAU	1547	ATACCTTG GGCTAGCTACAACGA GGCCTTGG	20217
843	ACAGAAUC A UGGAUCUU	1550	AAGATCCA GGCTAGCTACAACGA GATTCTGT	20218
886	CAGCCGUC A UUGGUUGG	1560	CCAACCAA GGCTAGCTACAACGA GACGGCTG	20219
910	GGAGCAAC A CCAUGCAG	1563	CTGCATGG GGCTAGCTACAACGA GTTGCTCC	20220
913	GCAACACC A UGCAGAGA	1565	TCTCTGCA GGCTAGCTACAACGA GGTGTGTC	20221
1023	GGAGCAAC A UGGGUGGA	1586	TCCACCCA GGCTAGCTACAACGA GTTGCTCC	20222
1066	UGACUAUC A UGUCUAAG	1591	CTTAGACA GGCTAGCTACAACGA GATAGTCA	20223
1087	AGCCUACC A UCGAUGUG	1597	CACATCGA GGCTAGCTACAACGA GGTAGGCT	20224
1174	AUCUCUCC A CCAAAGCU	1611	AGCTTTGG GGCTAGCTACAACGA GGAGAGAT	20225
1195	GCCCGACC A UGGGAGAA	1618	TTCTCCCA GGCTAGCTACAACGA GGTGGGGC	20226
1208	AGAAGCUC A CAAUGACA	1620	TGTCATTG GGCTAGCTACAACGA GAGCTTCT	20227
1303	AAGGAAGC A UUGACACA	1635	TGTGTCAA GGCTAGCTACAACGA GCTTCCTT	20228
1309	GCAUUGAC A CAUGCGCC	1636	GGCGCATG GGCTAGCTACAACGA GTCAATGC	20229
1311	AUUGACAC A UGCGCAA	1637	TTGGCGCA GGCTAGCTACAACGA GTGTCAAT	20230
1354	GAAGAACC A UCUUGAAA	1648	TTTCAAGA GGCTAGCTACAACGA GGTCTTTC	20231
1387	AAGUGGCC A UUUUUGUC	1652	GACAAAAA GGCTAGCTACAACGA GGCCTACT	20232
1397	UUUUGUCC A UGGACCAA	1654	TTGGTCCA GGCTAGCTACAACGA GGACAAAA	20233
1421	GGAGUCGC A CGGAACU	1659	AGTTTCCG GGCTAGCTACAACGA GCGACTCC	20234
1435	ACUACUCC A CACAGGUU	1663	AACCTGTG GGCTAGCTACAACGA GGAGTAGT	20235
1437	UACUCCAC A CAGGUUGG	1664	CCAACCTG GGCTAGCTACAACGA GTGGAGTA	20236
1450	UUGGAGCC A CUCAGGCA	1667	TGCCTGAG GGCTAGCTACAACGA GGCTCCAA	20237
1471	GAUUCUAC A UCACUCCU	1672	AGGAGTAG GGCTAGCTACAACGA GCTGAATC	20238
1474	UCAGCAUC A UCCUCGCG	1673	CGCAGGAG GGCTAGCTACAACGA GATGCTGA	20239
1491	GCGCCUUC A UACACACU	1679	AGTGTGTA GGCTAGCTACAACGA GAAGGCGC	20240
1495	CUUCAUAC A CACUAAAG	1680	CTTTAGTG GGCTAGCTACAACGA GTATGAAG	20241
1497	UCAUACAC A CUAAAGCU	1681	AGCTTTAG GGCTAGCTACAACGA GTGTATGA	20242
1542	UGUGAACC A CGGUCAGG	1687	CCTGACCG GGCTAGCTACAACGA GGTTCACA	20243
1558	GGAUUGAC A CCAAUGCA	1689	TGCATTGG GGCTAGCTACAACGA GTCAATCC	20244
1566	ACCAAUGC A UACUACGU	1692	ACGTAGTA GGCTAGCTACAACGA GCATTGGT	20245
1607	CUUGGUCC A UCGUGAGU	1698	ACTCAGCA GGCTAGCTACAACGA GGACCAAG	20246
1621	AGUGGUUC A UGGACCUC	1699	GAGGTCCA GGCTAGCTACAACGA GAACCACT	20247
1701	GAGGAACC A CACGCCAC	1713	GTGGCGTG GGCTAGCTACAACGA GGTTCCTC	20248
1703	GGAACCAC A CGCCACGA	1714	TCGTGGCG GGCTAGCTACAACGA GTGGTTCC	20249
1708	CACACGCC A CGAAGCAG	1716	CTGCTTCG GGCTAGCTACAACGA GGCCTGTG	20250
1728	GUGAUAGC A UUGGGCUC	1719	GAGCCCAA GGCTAGCTACAACGA GCTATCAC	20251
1737	UUGGGCUC A CAAGAGGG	1721	CCCTCTTG GGCTAGCTACAACGA GAGCCCAA	20252
1754	AGCUCUGC A UCAAGCUU	1725	AAGCTTGA GGCTAGCTACAACGA GCAGAGCT	20253
1774	CUGGAGCC A UUCCUGUG	1730	CACAGGAA GGCTAGCTACAACGA GGCTCCAG	20254
1798	CAAGCAAC A CUGUCAAG	1735	CTTGACAG GGCTAGCTACAACGA GTTGCTTG	20255
1820	GUCGGGUC A UUUGAAGU	1738	ACTTCAAA GGCTAGCTACAACGA GACCCGAC	20256
1918	CCGAGAC A CAGGUCAC	1752	GTGACCTG GGCTAGCTACAACGA GTCTGCGG	20257
1925	CACAGGUC A CGGCACUG	1754	CAGTGCCG GGCTAGCTACAACGA GACCTGTG	20258
1930	GUCACGGC A CUGUGGUG	1755	CACCACAG GGCTAGCTACAACGA GCCGTGAC	20259
1954	UGCAGUAC A CUGGCACG	1758	CGTGCCAG GGCTAGCTACAACGA GTACTGCA	20260
1960	ACACUGGC A CGGAUGGA	1760	TCCATCCG GGCTAGCTACAACGA GCCAGTGT	20261
2001	GUGGCUUC A UUGAACGA	1769	TCGTTCAA GGCTAGCTACAACGA GAAGCCAC	20262
2035	GAUUGGUC A CUGUCAAC	1775	GTTGACAG GGCTAGCTACAACGA GACCAATC	20263
2062	CAGUGGCC A CGGCCAAC	1783	GTTGGCCG GGCTAGCTACAACGA GGCCACTG	20264
2097	UUGGAACC A CCCUUGG	1790	CCAAGGGG GGCTAGCTACAACGA GGTTCCAA	20265
2112	GGAGACUC A UACAUAGU	1795	ACTATGTA GGCTAGCTACAACGA GAGTCTCC	20266
2116	ACUCAUAC A UAGUGGUG	1796	CACCACTA GGCTAGCTACAACGA GTATGAGT	20267
2150	GAUCAUAC A CCAUUGGC	1801	GCCAATGG GGCTAGCTACAACGA GATTGATC	20268

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2153	CAAUCACC A UUGGCACA	1803	TGTGCCAA GGCTAGCTACAACGA GGTGATTG	20269
2159	CCAUUGGC A CAAGUCUG	1804	CAGACTTG GGCTAGCTACAACGA GCCAATGG	20270
2176	GAAGCAGC A UUGGCAAA	1808	TTTGCCAA GGCTAGCTACAACGA GCTGCTTC	20271
2197	UUACAACC A CCCUCAA	1814	TTTGAGGG GGCTAGCTACAACGA GGTGTAA	20272
2236	UAGGAGAC A CAGCUUGG	1824	CCAAGCTG GGCTAGCTACAACGA GTCTCCTA	20273
2272	GGGUGUUC A CCUCAGUU	1829	AACTGAGG GGCTAGCTACAACGA GAACACCC	20274
2294	GGCUGUCC A UCAAGUGU	1835	ACACTTGA GGCTAGCTACAACGA GGACAGCC	20275
2313	GGAGGAGC A UUCGCGUC	1837	GAGCGGAA GGCTAGCTACAACGA GCTCCTCC	20276
2322	UUCGCGUC A CUGUUCGG	1840	CCGAACAG GGCTAGCTACAACGA GAGCGGAA	20277
2335	UCGGAGGC A UGUCCUGG	1842	CCAGGACA GGCTAGCTACAACGA GCCTCCGA	20278
2386	GGAUGGGC A UCAUAGCU	1851	AGCATTGA GGCTAGCTACAACGA GCCCATCC	20279
2407	AUAGGUCC A UAGCUCUC	1855	GAGAGCTA GGCTAGCTACAACGA GGACCTAT	20280
2416	UAGCUCUC A CGUUCUC	1858	GAGAAACG GGCTAGCTACAACGA GAGAGCTA	20281
2465	GAACGUGC A CGCUGACA	1868	TGTCAGCG GGCTAGCTACAACGA GCACGTTT	20282
2473	ACGCUGAC A CUGGGUGU	1870	ACACCCAG GGCTAGCTACAACGA GTCAGCGT	20283
2485	GGUGUGCC A UAGACAUC	1873	GATGCTTA GGCTAGCTACAACGA GGCACACC	20284
2491	CCAUAAGC A UCAGCCGG	1874	CCGGCTGA GGCTAGCTACAACGA GTCTATGG	20285
2530	GAGUGUUC A UACACAAU	1879	ATTGTGTA GGCTAGCTACAACGA GAACACTC	20286
2534	GUUCAUAC A CAAUGAUG	1880	CATCATTG GGCTAGCTACAACGA GTATGAAC	20287
2586	GAAACGCC A CAAGGCCU	1889	AGGCCTTG GGCTAGCTACAACGA GCGGTTTC	20288
2605	CCAAGAUC A UUCAGAAA	1895	TTTCTGAA GGCTAGCTACAACGA GATCTTGG	20289
2618	GAAAGCUC A UAAGGAAG	1898	CTTCCTTA GGCTAGCTACAACGA GAGCTTTC	20290
2663	ACUGGAGC A UCAAAUGU	1904	ACATTTGA GGCTAGCTACAACGA GCTCCAGT	20291
2698	AGCUGAAC A CUCUUUUG	1908	CAAAAGAG GGCTAGCTACAACGA GTTCAGCT	20292
2769	AAGUCAGC A CCUAAACG	1916	CGTTTAGG GGCTAGCTACAACGA GCTGACTT	20293
2782	AACGCCUC A CCGCCACC	1921	GGTGGCGG GGCTAGCTACAACGA GAGGCGTT	20294
2788	UCACCGCC A CCACGGAA	1924	TTCCGTGG GGCTAGCTACAACGA GCGGTGA	20295
2791	CCGCCACC A CGAAAAA	1926	TTTTTCCG GGCTAGCTACAACGA GGTGGCGG	20296
2844	UUAUUUGC A CCAGAACU	1930	AGTCTTGG GGCTAGCTACAACGA GCAAATAA	20297
2863	CCAACAAC A CCUUUGUG	1937	CACAAAGG GGCTAGCTACAACGA GTTGTGGG	20298
2956	UUGGUCAC A CCAGCACU	1949	AGTGCTGG GGCTAGCTACAACGA GAGACCAA	20299
2962	UACCCAGC A CUCGGAUG	1952	CATCCGAG GGCTAGCTACAACGA GCTGCTGA	20300
2995	AGAGCAAC A CAACUGAA	1958	TTCACTTG GGCTAGCTACAACGA GTTGCTCT	20301
3019	CGAAGAUC A UUGGAACG	1962	CGTTCCAA GGCTAGCTACAACGA GATCTTOG	20302
3053	GGCGAUCC A CAGUGACC	1968	GGTCACTG GGCTAGCTACAACGA GGATCGCC	20303
3135	GUCAAAUC A UGUACGUG	1981	CACGTACA GGCTAGCTACAACGA GATTTGAC	20304
3155	UGAGACGC A UACCUUGU	1984	ACAAGGTA GGCTAGCTACAACGA GCGTCTCA	20305
3205	UACCAGUC A CACUGGCG	1992	CCGCACTG GGCTAGCTACAACGA GACTGGTA	20306
3207	CCAGUCAC A CUGGCGGG	1993	CCCCTGAG GGCTAGCTACAACGA GTGACTGG	20307
3219	GCGGGACC A CGAAGCAA	1996	TTGCTTCG GGCTAGCTACAACGA GGTCCGCG	20308
3230	AAGCAAUC A CAAUCGGA	1998	TCCGATTG GGCTAGCTACAACGA GATTGCTT	20309
3255	UACAAGAC A CAAAACCA	2003	TGGTTTTG GGCTAGCTACAACGA GTCTTGTA	20310
3270	CAGGGCCC A UGGACGA	2009	TCGTCCCA GGCTAGCTACAACGA GGGCCCTG	20311
3325	CUACGGUC A CCCUGAGU	2017	ACTCAGGG GGCTAGCTACAACGA GACCGTAG	20312
3347	CUGCGGAC A CCGUGGAC	2022	GTCCACGG GGCTAGCTACAACGA GTCCGCG	20313
3361	GACCUGCC A CUCGCACC	2027	GGTGCGAG GGCTAGCTACAACGA GGCAGGTC	20314
3367	CCACUCGC A CCACCACA	2029	TGTGGTGG GGCTAGCTACAACGA GCGAGTGG	20315
3370	CUCGCACC A CCACAGAG	2031	CTCTGTGG GGCTAGCTACAACGA GGTGCGAG	20316
3373	GCACCACC A CAGAGAGC	2033	GCTCTCTG GGCTAGCTACAACGA GGTGGTGC	20317
3418	GGAGCUGC A CCUUACCA	2039	TGGTAAGG GGCTAGCTACAACGA GCAGTCTC	20318
3426	ACCUUACC A CCACUGCG	2043	CGCAGTGG GGCTAGCTACAACGA GGTAAAGT	20319
3429	UUACCACC A CUGCGCUA	2045	TAGCGCAG GGCTAGCTACAACGA GGTGTAA	20320
3480	AUCAGACC A CAGAGACA	2055	TGTCTCTG GGCTAGCTACAACGA GGTCTGAT	20321
3488	ACAGAGAC A UGAUGAAA	2057	TTTCATCA GGCTAGCTACAACGA GTCTCTGT	20322
3513	GUGCAGUC A CAAGUGAA	2062	TTCACTTG GGCTAGCTACAACGA GACTGCAC	20323
3583	UCUUGGCC A CCCAGGAG	2075	CTCCTGGG GGCTAGCTACAACGA GGCCAAGA	20324
3625	AGAUCAGC A UGCCAGCU	2086	AGCTGGCA GGCTAGCTACAACGA GCTGATCT	20325
3670	UUGGGGGC A UUACUUAC	2096	GTAAGTAA GGCTAGCTACAACGA GCCCCCAA	20326
3679	UUACUUAC A CUGAUGUG	2098	CACATCAG GGCTAGCTACAACGA GTAAGTAA	20327
3700	GCUAUGUC A UCUUGGCG	2101	CACCAAGA GGCTAGCTACAACGA GACATAGC	20328
3752	CGUGGUAC A CUUGGCGC	2107	GCGCCAAG GGCTAGCTACAACGA GTACCACG	20329
3763	UGGCGCUC A UGGCGACC	2110	GGTCGCCA GGCTAGCTACAACGA GAGCGCCA	20330

3801	AUGGUGGC A UCGUUCU	2117	AGAAACGA GGCTAGCTACAACGA GCCACCAT	20331
3838	AGGAGAAC A UUUUGUUG	2124	CAACAAAA GGCTAGCTACAACGA GTTCTCCT	20332
3881	GGCUUAUC A CGAUGCCC	2129	GGGCATCG GGCTAGCTACAACGA GATAAGCC	20333
3930	UUGAAUUC A CUGGCGGU	2140	ACCGCCAG GGCTAGCTACAACGA GAATTCAA	20334
3961	UGAGAGCC A UAACAUUC	2145	GAATGTTA GGCTAGCTACAACGA GGCTCTCA	20335
3966	GCCAUAAC A UUCACAAC	2146	GTTGTGAA GGCTAGCTACAACGA GTTATGGC	20336
3970	UAACAUUC A CAACGACA	2147	TGTCGTTG GGCTAGCTACAACGA GAATGTTA	20337
3978	ACAACGAC A UCAAACGU	2149	ACGTTTGA GGCTAGCTACAACGA GTCGTTGT	20338
4014	CUGCUAAC A CCCGGGCU	2158	AGCCCGGG GGCTAGCTACAACGA GTTAGCAG	20339
4171	UCAACCCC A UGAUCCUU	2188	AAGGATCA GGCTAGCTACAACGA GGGGTTGA	20340
4197	CUGAUUGC A UGUGAUCC	2194	GGATCACA GGCTAGCTACAACGA GCAATCAG	20341
4267	UGUUGGCC A UCGUCGGA	2208	TCCGACGA GGCTAGCTACAACGA GGCAAACA	20342
4294	AGCUUGAC A UUGACUCC	2212	GGAGTCAA GGCTAGCTACAACGA GTCAAGCT	20343
4303	UUGACUCC A UGGCCAUA	2215	AATGGCCA GGCTAGCTACAACGA GGAGTCAA	20344
4309	CCAUGGCC A UUCCAAUG	2217	CATTGGAA GGCTAGCTACAACGA GGCCATGG	20345
4333	CGGGGCUC A UGUUUGCU	2222	AGCAAACA GGCTAGCTACAACGA GAGCCCCG	20346
4396	CGGCGGAC A UUUCUUGG	2228	CCAGGAAA GGCTAGCTACAACGA GTCCGCCG	20347
4480	UCCAGCUC A UGAAUGAU	2239	ATCATTCA GGCTAGCTACAACGA GAGCTGGA	20348
4497	CCAGGAGC A CCUUGGAA	2242	TTCCAAGG GGCTAGCTACAACGA GCTCCTGG	20349
4549	GUGCGUAC A CCCCCUGG	2249	CCAGGGGG GGCTAGCTACAACGA GTACGCAC	20350
4603	UCCAAUAC A CAAAGAGA	2265	TCTCTTTG GGCTAGCTACAACGA GTATTGGA	20351
4630	UGUGGGAC A CUCCUCA	2267	TGAGGAGG GGCTAGCTACAACGA GTCCGACA	20352
4638	ACUCCUC A CCAAAGGA	2272	TCCTTTGG GGCTAGCTACAACGA GAGGGAGT	20353
4663	AGGGGGAC A CGACCACC	2276	GGTGGTCG GGCTAGCTACAACGA GTCCCCCT	20354
4669	ACACGACC A CCGGCGUC	2278	GACGCCGG GGCTAGCTACAACGA GGTCTGT	20355
4687	ACAGGAUC A UGACUCGU	2282	ACGAGTCA GGCTAGCTACAACGA GATCCTGT	20356
4751	UGUUUUC A CACCUUU	2290	AAAGGGTG GGCTAGCTACAACGA GGAAAACA	20357
4753	UUUUCAC A CCCUUUGG	2291	CCAAAGGG GGCTAGCTACAACGA GTGGAAAA	20358
4763	CCUUUGGC A UACAACAA	2295	TTGTTGTA GGCTAGCTACAACGA GCCAAAGG	20359
4812	CUGGACCC A UACUGGGG	2305	CGCCCTGA GGCTAGCTACAACGA GGGTCCAG	20360
4871	AUUGCAGC A CAAGUGGA	2314	TCCACTTG GGCTAGCTACAACGA GCTGCAAT	20361
4965	UUCAAAC A CCUGAAGG	2326	CCTTCAGG GGCTAGCTACAACGA GTTTTGAA	20362
5005	ACUUCCCC A CUGGAACA	2335	TGTTCCAG GGCTAGCTACAACGA GGGGAAGT	20363
5013	ACUGGAAC A UCAGGCUC	2337	GAGCCTGA GGCTAGCTACAACGA GTTCCAGT	20364
5022	UCAGGCUC A CCAUAGU	2340	ACTATTGG GGCTAGCTACAACGA GAGCCTGA	20365
5074	AUGGAGUC A UAAUGCCC	2346	GGGCATTA GGCTAGCTACAACGA GACTCCAT	20366
5091	AACGGCUC A UACAUAAG	2351	CTTATGTA GGCTAGCTACAACGA GAGCCGTT	20367
5095	GCUCAUAC A UAAGCGCG	2352	CGCGCTTA GGCTAGCTACAACGA GTATGAGC	20368
5179	AACAGAU A CUGUACUG	2364	CAGTACAG GGCTAGCTACAACGA GATCTGTT	20369
5195	GGAUCUCC A UCCCGGCG	2369	CGCCGGGA GGCTAGCTACAACGA GGAGATCC	20370
5229	AUUCUGCC A CAGAUCAU	2376	ATGATCTG GGCTAGCTACAACGA GGCAGAAT	20371
5236	CACAGAU A UCAAAGAG	2378	CTCTTTGA GGCTAGCTACAACGA GATCTGTG	20372
5248	AAGAGGCC A UAAACAGA	2381	TCTGTTTA GGCTAGCTACAACGA GGCCTCTT	20373
5280	GUGCUAGC A CCAACCAG	2387	CTGGTTGG GGCTAGCTACAACGA GCTAGCAC	20374
5316	GCUGAAGC A CUGAGAGG	2395	CCTCTCAG GGCTAGCTACAACGA GCTTCAGC	20375
5332	GACUGCCC A UCCGGUAC	2400	GTACCGGA GGCTAGCTACAACGA GGGCAGTC	20376
5346	UACCAGAC A UCCGCAGU	2404	ACTGCGGA GGCTAGCTACAACGA GTCTGGTA	20377
5366	CAGAGAAC A UAAUGGAA	2410	TTCCATTA GGCTAGCTACAACGA GTTCTCTG	20378
5392	UUGAUGUC A UGUGUCAU	2411	ATGACACA GGCTAGCTACAACGA GACATCAA	20379
5399	CAUGUGUC A UGCUACCC	2412	GGGTAGCA GGCTAGCTACAACGA GACACATG	20380
5410	CUACCCUC A CCCACAGG	2417	CCTGTGGG GGCTAGCTACAACGA GAGGGTAG	20381
5414	CCUCACCC A CAGGCUGA	2420	TCAGCCTG GGCTAGCTACAACGA GGGTGAGG	20382
5432	GUCUCUC A CAGGGUGC	2426	GCACCTCG GGCTAGCTACAACGA GAGGAGAC	20383
5474	UGAGGCUC A UUUCACCG	2434	CGGTGAAA GGCTAGCTACAACGA GAGCCTCA	20384
5479	CUCAUUC A CCGACCCA	2435	TGGGTCGG GGCTAGCTACAACGA GAAATGAG	20385
5494	CAGCUAGC A UUGCAGCA	2441	TGCTGCAA GGCTAGCTACAACGA GCTAGCTG	20386
5512	GAGGUUAC A UUUCACCA	2444	TGTGGAAA GGCTAGCTACAACGA GTAACCTC	20387
5518	ACAUUUC A CAAAGGUC	2446	GACCTTTG GGCTAGCTACAACGA GGAAATGT	20388
5554	CAUAUUC A UGACAGCC	2450	GGCTGTCA GGCTAGCTACAACGA GAATATTG	20389
5563	UGACAGCC A CCCACCA	2453	TGGTGGGG GGCTAGCTACAACGA GGCTGTCA	20390
5568	GCCACCCC A CCAGGCAC	2457	GTGCTTGG GGCTAGCTACAACGA GGGGTGGC	20391
5575	CACCAGGC A CUUCAGAU	2460	ATCTGAAG GGCTAGCTACAACGA GCCTGGTG	20392

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5586	UCAGAUCC A UUCCAGAA	2464	TCTGGGAA GGCTAGCTACAACGA GGATCTGA	20393
5604	UCCAAUUC A CCAAUUC	2470	GAAATTGG GGCTAGCTACAACGA GAATTGGA	20394
5668	AAUGGAUC A CAGAAUAC	2482	GTATTCTG GGCTAGCTACAACGA GATCCATT	20395
5677	CAGAAUAC A CCGGGAAG	2484	CTTCCCGG GGCTAGCTACAACGA GTATTCTG	20396
5833	UUGUUUUC A CAACAGAC	2503	GTCTGTTG GGCTAGCTACAACGA GATAACAA	20397
5842	CAACAGAC A UAUCUGAA	2506	TTCAGATA GGCTAGCTACAACGA GTCTGTTG	20398
5911	AACCAACC A UCAUAACA	2517	TGTTATGA GGCTAGCTACAACGA GGTGTTG	20399
5914	CAACCAUC A UAACAGAA	2518	TTCTGTTA GGCTAGCTACAACGA GATGTTG	20400
5952	GGAGAACC A UCUGCAGU	2523	ACTGCAGA GGCTAGCTACAACGA GGTCTCTC	20401
6044	UGGGGGGC A CACGAUUG	2536	CATTCTGT GGCTAGCTACAACGA GCGCCCA	20402
6046	GGGGGAC A CGAAUGAA	2537	TTCATTCT GGCTAGCTACAACGA GTGCCCC	20403
6074	CUUCGCCC A UUGGACUG	2542	CAGTCCAA GGCTAGCTACAACGA GGCAGAAG	20404
6087	ACUGAGGC A CGAAUCAU	2544	ATGATTCT GGCTAGCTACAACGA GCCTCAGT	20405
6094	CACGAUUC A UGCUGGAC	2545	GTCCAGCA GGCTAGCTACAACGA GATTCGTG	20406
6106	UGGACAAC A UCAACAUG	2548	CATGTTGA GGCTAGCTACAACGA GTTGTTCA	20407
6112	AACCAAC A UGCCAAC	2550	GTTTGAGA GGCTAGCTACAACGA GTTGATGT	20408
6169	UAUAUACC A UGGAUGGG	2562	CCCATTCA GGCTAGCTACAACGA GTTATATA	20409
6282	GGAGUGUC A UACCACGA	2579	TCGTGGTA GGCTAGCTACAACGA GACACTCC	20410
6287	GUCAUACC A CGACCGGA	2581	TCCGGTCG GGCTAGCTACAACGA GGTATGAC	20411
6325	GGACAAAC A CAAUUUUA	2587	TAAATTTG GGCTAGCTACAACGA GTTGTTCC	20412
6358	UGGAAGUC A UCACGAAG	2591	CTTCTGTA GGCTAGCTACAACGA GACTTCCA	20413
6361	AAGUCAUC A CGAAGCUU	2592	AAGCTTCG GGCTAGCTACAACGA GATGACTT	20414
6425	CUCGGAUC A CCAGGCAC	2600	GTGCTTGG GGCTAGCTACAACGA GATCCGAG	20415
6432	CACGAGGC A CUAAAGGC	2603	GCCTTTAG GGCTAGCTACAACGA GCCTGGTG	20416
6484	UAGGGCUC A UUGAGGUU	2612	AACCTCAA GGCTAGCTACAACGA GAGCCCTA	20417
6512	GCCUGAGC A CUUCAUGG	2616	CCATGAAG GGCTAGCTACAACGA GCTCAGGC	20418
6517	AGCACUUC A UGGGGAAG	2618	CTTCCCCA GGCTAGCTACAACGA GAAGTGCT	20419
6528	GGGAAGAC A UGGGAAGC	2619	GCTTCCCA GGCTAGCTACAACGA GTCTTCCC	20420
6537	UGGGAAGC A CUUGACAC	2620	GTGTCAAG GGCTAGCTACAACGA GCTTCCCA	20421
6544	CACUUGAC A CCAUGUAC	2622	GTACATGG GGCTAGCTACAACGA GTCAAGTG	20422
6547	UGGACACC A UGUACGUU	2624	AACGTACA GGCTAGCTACAACGA GGTGTCAA	20423
6562	UUGUGGCC A CUGCAGAG	2626	CTCTGCAG GGCTAGCTACAACGA GGCACAA	20424
6587	AAGAGCUC A CAGAAUGG	2630	CCATTCTG GGCTAGCTACAACGA GAGCTCTT	20425
6661	UGAUGACC A UGGGAGUA	2647	TACTCCCA GGCTAGCTACAACGA GGTATCA	20426
6682	UCCUCUC A UGCAGCGG	2653	CCGCTGCA GGCTAGCTACAACGA GAGGAGGA	20427
6697	GGAAAGGC A UUGGAAG	2655	CTTTCCAA GGCTAGCTACAACGA GCGCTTCC	20428
6889	UUUGUGUC A UGACCCUU	2688	AAGGGTCA GGCTAGCTACAACGA GACACAAA	20429
6952	AGAGUGAC A UAAGCAGU	2699	ACTGCTTA GGCTAGCTACAACGA GTCATCT	20430
7000	AUUUCAGC A UGGGAGAG	2704	CTCTCCCA GGCTAGCTACAACGA GCTGAAAT	20431
7044	GCCUGGUC A CUGUACGC	2712	GCGTACAG GGCTAGCTACAACGA GACGAGGC	20432
7072	CGGUCCUC A CUCCACUG	2719	CAGTGGAG GGCTAGCTACAACGA GAGGACCG	20433
7077	CUCACUCC A CUGCUAAA	2722	TTTAGCAG GGCTAGCTACAACGA GGAGTGAG	20434
7088	GCUAAAGC A UUUGAUCA	2725	TGATCAAA GGCTAGCTACAACGA GCTTTAGC	20435
7096	AUUUGAUC A CGUCAGAU	2726	ATCTGACG GGCTAGCTACAACGA GATCAAAT	20436
7108	CAGAUUAC A UCAACACC	2728	GGTGTGTA GGCTAGCTACAACGA GTAATCTG	20437
7114	ACAUCAC A CCUCAUUG	2730	CAATGAGG GGCTAGCTACAACGA GTTGATGT	20438
7119	AACACGUC A UUGACCUC	2733	GAGGTCAA GGCTAGCTACAACGA GAGGTGTT	20439
7149	GCAAGUGC A CUUUUCAC	2739	GTGAATAG GGCTAGCTACAACGA GCACTTGC	20440
7156	CACUAUUC A CACUCGCG	2741	CGCGAGTG GGCTAGCTACAACGA GAATAGTG	20441
7158	CUAUUCAC A CUCGCGCG	2742	CGCGGAGG GGCTAGCTACAACGA GTGAATAG	20442
7234	GACAAGUC A CCCUCACC	2758	GGTGAGGG GGCTAGCTACAACGA GACTTGTC	20443
7240	UCACCCUC A CCGUACG	2762	CGTAACGG GGCTAGCTACAACGA GAGGGTGA	20444
7263	CGGCAAC A CUCCUUU	2766	AAAAGGAG GGCTAGCTACAACGA GTTGCCGC	20445
7277	UUUUUGCC A CUUUGCCU	2771	AGGCATAG GGCTAGCTACAACGA GGCAAAA	20446
7288	AUGCCUAC A UGGUCCCC	2775	GGGAACCA GGCTAGCTACAACGA GTAGGCAT	20447
7351	CCGGAUUC A UGAAGAAC	2788	GTTCTTCA GGCTAGCTACAACGA GATTCGCG	20448
7375	UGGAUGGC A UCGUGGCC	2790	GGCCACGA GGCTAGCTACAACGA GCCATCCA	20449
7384	UCGUGGCC A CGGACGUC	2792	GACGTCCG GGCTAGCTACAACGA GGCCACGA	20450
7408	UAGAGCGC A CCACACCC	2796	GGGTGTGG GGCTAGCTACAACGA GCGCTCTA	20451
7411	AGCGCAC A CACCAUC	2798	GATGGGTG GGCTAGCTACAACGA GGTGCGCT	20452
7413	CGCACAC A CCAUCAU	2799	ATGATGGG GGCTAGCTACAACGA GTGGTGG	20453
7417	CCACACCC A UCAUGCAG	2802	CTGCATGA GGCTAGCTACAACGA GGGTGTGG	20454

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7420	CACCAUC A UGCAGAAG	2803	CTTCTGCA GGCTAGCTACAACGA GATGGGTG	20455
7444	GACAGAUC A UGCUGAUC	2806	GATCAGCA GGCTAGCTACAACGA GATCTGTC	20456
7522	UUUUGAUC A CGGCCGCA	2818	TGCGGCCG GGCTAGCTACAACGA GATCAAAA	20457
7585	CAACUGCC A UCGGACUC	2829	GAGTCCGA GGCTAGCTACAACGA GGCAGTTG	20458
7598	ACUCUGCC A CAUCAUGC	2833	GCATGATG GGCTAGCTACAACGA GGCAGAGT	20459
7600	UCUGCCAC A UCAUGCGU	2834	ACGCATGA GGCTAGCTACAACGA GTGGCAGA	20460
7603	GCCACAUC A UGCGUGGG	2835	CCCACGCA GGCTAGCTACAACGA GATGTGGC	20461
7623	UGGUUGUC A UGUCUAUC	2836	GATAGACA GGCTAGCTACAACGA GACAACCA	20462
7633	GUCUAUCC A UAACAUGG	2839	CCATGTTA GGCTAGCTACAACGA GGATAGAC	20463
7638	UCCAUAAC A UGGACACU	2840	AGTGTCCA GGCTAGCTACAACGA GTTATGGA	20464
7644	ACAUGGAC A CUCAUAAA	2841	TTTATGAG GGCTAGCTACAACGA GTCCATGT	20465
7648	GGACACUC A UAAAGAAC	2843	GTTCTTTA GGCTAGCTACAACGA GAGTGTCC	20466
7657	UAAAGAAC A UGGAAGAA	2844	TTTTTCCA GGCTAGCTACAACGA GTTCTTTA	20467
7699	AAGGACGC A CCUUGGGA	2849	TCCCAAGG GGCTAGCTACAACGA GCGTCTCT	20468
7753	AAGAGUUC A CUAGGUAC	2857	GTACCTAG GGCTAGCTACAACGA GAACTCTT	20469
7774	AAGAGGCC A UCAUCGAA	2862	TTCGATGA GGCTAGCTACAACGA GGCCTCTT	20470
7777	AGGCCAUC A UCGAAGUC	2863	GACTTCGA GGCTAGCTACAACGA GATGGCCT	20471
7805	GGCAAAAC A CGCCAGGA	2867	TCCTGGCG GGCTAGCTACAACGA GTTTTGCC	20472
7828	GCAUUGUC A CUGGAGGG	2871	CCCTCCAG GGCTAGCTACAACGA GACATTGC	20473
7838	UGGAGGGC A UCCAGUCU	2873	AGACTGGA GGCTAGCTACAACGA GCCCTCCA	20474
7855	CUAGGGGC A CAGCAAAA	2878	TTTTGCTG GGCTAGCTACAACGA GCCCCTAG	20475
7990	GAGGGUAC A CAAAGGGC	2895	GCCCTTTG GGCTAGCTACAACGA GTACCCTC	20476
8009	UCCCGGAC A UGAAGAGC	2899	GCTCTTCA GGCTAGCTACAACGA GTCCGGGA	20477
8047	GAUGGAAC A UUGUCACC	2906	GGTGACAA GGCTAGCTACAACGA GTTCCATC	20478
8053	ACAUUGUC A CCAUGAAG	2907	CTTCATGG GGCTAGCTACAACGA GACAATGT	20479
8056	UUGUCACC A UGAAGAGU	2909	ACTCTTCA GGCTAGCTACAACGA GGTGACAA	20480
8104	GUUGUGAC A CCCUCCUU	2915	AAGGAGGG GGCTAGCTACAACGA GTCACAAC	20481
8119	UUUGUGAC A UCGGAGAG	2921	CTCTCCGA GGCTAGCTACAACGA GTCACAAA	20482
8156	UGAAGAGC A UAGGACGA	2926	TCGTCTTA GGCTAGCTACAACGA GCTCTTCA	20483
8198	CUGGCUGC A CCGAGGGC	2931	GCCCTCGG GGCTAGCTACAACGA GCAGCCAG	20484
8242	GCCCUAAC A UGCCGAAA	2941	TTTCGGCA GGCTAGCTACAACGA GTAGGGGC	20485
8254	CGAAAGUC A UAGAGAAG	2943	CTTCTCTA GGCTAGCTACAACGA GACTTTCG	20486
8310	AGAAACCC A CUCUCACG	2953	CGTGAGAG GGCTAGCTACAACGA GGGTTTCT	20487
8316	CCACUCUC A CGGAAUUC	2956	GAATTCCG GGCTAGCTACAACGA GAGAGTGG	20488
8326	GGAAUUC A CGCACGAG	2958	CTCGTGCG GGCTAGCTACAACGA GGAATTCC	20489
8330	UUCACGCG A CGAGAUGU	2959	ACATCTCG GGCTAGCTACAACGA GCGTGGA	20490
8372	UGUGGUAC A UUCAGUGA	2963	TCACTGAA GGCTAGCTACAACGA GTACCACA	20491
8506	ACUCAGAC A CCAGUAAA	2989	TTTACTGG GGCTAGCTACAACGA GTCTGAGT	20492
8564	GACGUGGC A CCACGAUG	2997	CATCGTGG GGCTAGCTACAACGA GCCACGTC	20493
8567	GUGGCACC A CGAUGAGA	2999	TCTCATCG GGCTAGCTACAACGA GGTGCCAC	20494
8579	UGAGAACC A CCCAUUA	3001	TATATGGG GGCTAGCTACAACGA GGTCTCTA	20495
8583	AACCACCC A UAUAGAAC	3004	GTTCTATA GGCTAGCTACAACGA GGGTGGTT	20496
8603	GAACUAUC A CGGCAGUU	3008	AACTGCCG GGCTAGCTACAACGA GATAGTTC	20497
8626	UGAAGCCC A CAGGCUC	3012	GGAGCCTG GGCTAGCTACAACGA GGGCTTCA	20498
8679	UCAAACCC A UGGGACAC	3027	GTGTCCCA GGCTAGCTACAACGA GGTTTTGA	20499
8686	CAUGGGAC A CCAUCACG	3028	CGTGATGG GGCTAGCTACAACGA GTCCCATG	20500
8689	GGGACACC A UCACGAU	3030	ATTCTGTA GGCTAGCTACAACGA GGTGTCCC	20501
8692	ACACCAUC A CGAAUGUU	3031	AACATTCG GGCTAGCTACAACGA GATGGTGT	20502
8704	AUGUUAAC A CCAUGGCC	3033	GGCCATGG GGCTAGCTACAACGA GGTAACAT	20503
8707	UUACCACC A UGGCAUG	3035	CATGGCCA GGCTAGCTACAACGA GGTGGTAA	20504
8713	CCAUGGCC A UGACUGAC	3037	GTCAGTCA GGCTAGCTACAACGA GGCCATGG	20505
8722	UGACUGAC A CUACUCCC	3039	GGGAGTAG GGCTAGCTACAACGA GTCAGTCA	20506
8767	AGGUGGAC A CGAAAGCU	3048	AGCTTTTG GGCTAGCTACAACGA GTCCACCT	20507
8818	AUGAGACC A CCAACUGG	3058	CCAGTTGG GGCTAGCTACAACGA GGTCTCAT	20508
8884	AGGAUUC A UAAGAAAG	3069	CTTTCTTA GGCTAGCTACAACGA GAATTCCT	20509
8920	UGGGUGCC A UGUUUGAA	3076	TTCAAACA GGCTAGCTACAACGA GGCACCCA	20510
9009	CGCGAGGC A CAUCUGCG	3084	CGCAGATG GGCTAGCTACAACGA GCCTCGCG	20511
9011	CGAGGCAC A UCUGCGGG	3085	CCCGCAGA GGCTAGCTACAACGA GTGCCTCG	20512
9029	GGAAUGUC A CACUUGCA	3087	TGCAAGTG GGCTAGCTACAACGA GACATTCC	20513
9031	AAUGUCAC A CUUGCAU	3088	AATGCAAG GGCTAGCTACAACGA GTGACATT	20514
9037	ACACUUGC A UUACAAC	3090	GTTGTAAA GGCTAGCTACAACGA GCAAGTGT	20515
9046	UUACAAC A UGAUGGGA	3092	TCCCATCA GGCTAGCTACAACGA GTTGTAAA	20516

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9106	GCAGAGCC A UUUGGUUC	3099	GAACCAAA GGCTAGCTACAACGA GGCTCTGC	20517
9115	UUUGGUUC A UGUGGCUC	3100	GAGCCACA GGCTAGCTACAACGA GAACCAAA	20518
9173	UGAAGACC A CUGGCUUG	3110	CAAGCCAG GGCTAGCTACAACGA GGTCTTCA	20519
9238	UGGGUUAC A UCCUGCGU	3121	ACGCAGGA GGCTAGCTACAACGA GTAACCCA	20520
9256	AAGUUGGC A CCCGGCCU	3124	AGGCCGGG GGCTAGCTACAACGA GCCAACTT	20521
9289	CUGAUGAC A CAGCUGGC	3132	GCCAGCTG GGCTAGCTACAACGA GTCATCAG	20522
9304	GCUGGGAC A CCCGCAUC	3136	GATGCGGG GGCTAGCTACAACGA GTCCCAGC	20523
9310	ACACCCGC A UCACGAGA	3139	TCTCGTGA GGCTAGCTACAACGA GCGGGTGT	20524
9313	CCCGCAUC A CGAGAGCU	3140	AGCTCTCG GGCTAGCTACAACGA GATGCGGG	20525
9368	UGGGGAAC A UCGGCGUC	3147	GACGCCGA GGCTAGCTACAACGA GTTCCCCA	20526
9388	CCAGGGCC A UCAUUGAG	3152	CTCAATGA GGCTAGCTACAACGA GGCCCTGG	20527
9391	GGGCCAUC A UUGAGCUC	3153	GAGCTCAA GGCTAGCTACAACGA GATGCCCC	20528
9400	UUGAGCUC A CCUAUCGU	3155	ACGATAGG GGCTAGCTACAACGA GAGCTCAA	20529
9410	CUAUCGUC A CAAAGUUG	3158	CAACTTTG GGCTAGCTACAACGA GACGATAG	20530
9457	GAACCGUC A UGGAUGUU	3165	AACATCCA GGCTAGCTACAACGA GACGATTTC	20531
9505	AAGUUGUC A CCUACGCC	3171	GGCCTAGG GGCTAGCTACAACGA GACAACTT	20532
9520	CCCUAAAC A CUUUCACC	3177	GGTGAAAG GGCTAGCTACAACGA GTTTAGGG	20533
9526	ACACUUUC A CCAACCUG	3179	CAGGTTGG GGCTAGCTACAACGA GAAAGTGT	20534
9601	AGAAACUC A CAAAAGGG	3192	CCCTTTTG GGCTAGCTACAACGA GAGTTTCT	20535
9667	UCAGCCGC A UGGCUGUC	3204	GACAGCCA GGCTAGCTACAACGA GCGGCTGA	20536
9721	GUUUGCC A CCUCGCUC	3214	GAGCGAGG GGCTAGCTACAACGA GGCAAAGC	20537
9731	CUCGCUCC A CUUCCUCA	3219	TGAGGAAG GGCTAGCTACAACGA GGAGCGAG	20538
9766	GCAAAGAC A UCCAAGAG	3227	CTCTTGGA GGCTAGCTACAACGA GTCTTTGC	20539
9816	CAGGUUCC A UUUUGCUC	3236	GAGCAAAA GGCTAGCTACAACGA GGAACCTG	20540
9830	CUCAAAAC A UUUCACUG	3240	CAGTGAAA GGCTAGCTACAACGA GGTTTGAG	20541
9835	ACCAUUUC A CUGAAUUG	3241	CAATTTCAG GGCTAGCTACAACGA GAAATGTT	20542
9847	AAUUGAUC A UGAAAGAU	3243	ATCTTTCA GGCTAGCTACAACGA GATCAATT	20543
9864	GGAGAAGC A CUGGUGGU	3244	ACCACCAG GGCTAGCTACAACGA GTTCTTCC	20544
9876	GUGGUUCC A UGCCGAGG	3247	CCTCGGCA GGCTAGCTACAACGA GGAACCAC	20545
9913	GAGCUCGC A UAUCUCCA	3252	TGGAGATA GGCTAGCTACAACGA GCGGCTC	20546
9946	UCCGCGAC A CUGCUUGU	3258	ACAAGCAG GGCTAGCTACAACGA GTCGCGGA	20547
9998	GUACUUC A CAGAAGAG	3272	CTCTTCTG GGCTAGCTACAACGA GGAAGTAC	20548
10018	UGCGGCUC A UGGCCAAC	3277	GTTGGCCA GGCTAGCTACAACGA GAGCCGCA	20549
10030	CCAACGCC A UUUGCUCC	3281	GGAGCAAA GGCTAGCTACAACGA GCGTTTGG	20550
10075	GAAGAACC A CGUGGUCC	3293	GGACCACG GGCTAGCTACAACGA GGTTCCTC	20551
10084	CGUGGUCC A UCCAUGCA	3295	TGCATGGA GGCTAGCTACAACGA GGACCACG	20552
10088	GUCCAUC A UGCAGGAG	3297	CTCCTGCA GGCTAGCTACAACGA GGATGGAC	20553
10120	CAGAGGAC A UGUUGGAG	3301	CTCCAACA GGCTAGCTACAACGA GTCCTCTG	20554
10206	GACGUCCC A UAUUCAGG	3311	CCTGAATA GGCTAGCTACAACGA GGGACGTC	20555
10228	GAGAGGAC A UCUGGUGU	3313	ACACCAGA GGCTAGCTACAACGA GTCCTCTC	20556
10252	UGAUUGGC A CAAGAGCC	3318	GGCTCTTG GGCTAGCTACAACGA GCCAATCA	20557
10267	CCCGAGCC A CGUGGCA	3323	TGCCACAG GGCTAGCTACAACGA GGTCTGGG	20558
10282	CAGAAAC A UCCAGGUG	3325	CACCTGGA GGCTAGCTACAACGA GTTTTCTG	20559
10315	GAGCAAUC A UCGGAGAU	3334	ATCTCCGA GGCTAGCTACAACGA GATTGCTC	20560
10342	UGGAUUAC A UGAGUACA	3335	TGAATCA GGCTAGCTACAACGA GTAATCCA	20561
10350	AUGAGUUC A CUAAAGAG	3336	CTCTTTAG GGCTAGCTACAACGA GAACTCAT	20562
10369	AUGAAGAC A CAACUUUG	3338	CAAAGTTG GGCTAGCTACAACGA GTCCTCAT	20563
10387	UUGAGGAC A CAGUACUG	3341	CAGTACTG GGCTAGCTACAACGA GTCCTCAA	20564
10436	AAGUAUGC A UAAAAGUG	3346	CACTTTTA GGCTAGCTACAACGA GCATACTT	20565
10528	UUCCCGCC A CCGGAAGU	3352	ACTTCCGG GGCTAGCTACAACGA GCGGGGAA	20566
10604	AGUGAUCC A UGUAAAGCC	3367	GGCTTACA GGCTAGCTACAACGA GGATCACT	20567
10641	AGGACCCC A CAUGUUGU	3377	ACAACATG GGCTAGCTACAACGA GGGGTCTT	20568
10643	GACCCAC A UGUUGUAA	3378	TTACAACA GGCTAGCTACAACGA GTGGGGTC	20569
10674	GUCAGACC A CGCUACGG	3386	CCGTAGCG GGCTAGCTACAACGA GGTCTGAC	20570
10759	AACGCCCC A CGCGGCC	3405	GGGCCGCG GGCTAGCTACAACGA GGGGCGTT	20571
10838	UAAAGUGC A CGGCCAG	3418	CTGGGCGG GGCTAGCTACAACGA GCACTTTA	20572
10903	CCCGUGCC A CAAAACAC	3432	GTGTTTTG GGCTAGCTACAACGA GGCACGGG	20573
10910	CACAAAC A CCACAACA	3434	TGTTGTGG GGCTAGCTACAACGA GTTTTGTG	20574
10913	AAAACACC A CAACAAA	3436	TTTTGTGG GGCTAGCTACAACGA GGTGTTTT	20575
10926	AAAACAGC A UAUUGACA	3440	TGTCAATA GGCTAGCTACAACGA GCTGTTTT	20576
10934	AUAUUGAC A CCUGGGAU	3441	ATCCAGG GGCTAGCTACAACGA GTCAATAT	20577
10967	UGCUCUGC A CAACCAGC	3449	GCTGTTGG GGCTAGCTACAACGA GCAGAGCA	20578

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10977	AACCAGCC A CACGGCAC	3454	GTGCCGTG GGCTAGCTACAACGA GGCTGGTT	20579
10979	CCAGCCAC A CGGCACAG	3455	CTGTGCCG GGCTAGCTACAACGA GTGGCTGG	20580
10984	CACACGGC A CAGUGCGC	3456	GCGCACTG GGCTAGCTACAACGA GCCGTGTG	20581
11021	GCGAGAAC A CAGGAUCU	3461	AGATCCTG GGCTAGCTACAACGA GTTCTCGC	20582
9	AGUAGUUC G CCUGUGUG	3462	CACACAGG GGCTAGCTACAACGA GAACTACT	20583
13	GUUCGCCU G UGUGAGCU	3463	AGCTCACA GGCTAGCTACAACGA AGGCGAAC	20584
15	UCGCCUGU G UGAGCUGA	3464	TCAGTCCA GGCTAGCTACAACGA ACAGGCGA	20585
19	CUGUGUGA G CUGACAAA	3465	TTTGTCTG GGCTAGCTACAACGA TCACACAG	20586
32	CAAAACUA G UAGUGUUU	3466	AAACACTA GGCTAGCTACAACGA TAAGTTTG	20587
35	ACUAGUA G UGUUUGUG	3467	CACAAACA GGCTAGCTACAACGA TACTAAGT	20588
37	UUAGUAGU G UUUGUGAG	3468	CTCACAAA GGCTAGCTACAACGA ACTACTAA	20589
41	UAGUGUUU G UGAGGAUU	3469	AATCCTCA GGCTAGCTACAACGA AAACACTA	20590
66	UUAACACA G UGCGAGCU	3470	AGTCGCGA GGCTAGCTACAACGA TGTGTTAA	20591
68	AACACAGU G CGAGCUGU	3471	ACAGCTCG GGCTAGCTACAACGA ACTGTGTT	20592
72	CAGUGCGA G CUGUUUCU	3472	AGAAACAG GGCTAGCTACAACGA TCGCATG	20593
75	UGCGAGCU G UUUCUAG	3473	CTAAGAAA GGCTAGCTACAACGA AGCTCGCA	20594
83	GUUUCUUA G CACGAAGA	3474	TCTTCGTG GGCTAGCTACAACGA TAAGAAAC	20595
99	AUCUCGAU G UCUAAGAA	3475	TTCTTAGA GGCTAGCTACAACGA ATCGAGAT	20596
117	CCAGGAGG G CCCGGCAA	3476	TTGCCGGG GGCTAGCTACAACGA CCTCCTGG	20597
122	AGGGCCCG G CAAGAGCC	3477	GGCTCTTG GGCTAGCTACAACGA CGGGCCCT	20598
128	CGGCAAGA G CCGGGCUG	3478	CAGCCCGG GGCTAGCTACAACGA TCTTGCCG	20599
133	AGAGCCGG G CUGUCAU	3479	ATTGACAG GGCTAGCTACAACGA CCGGCTCT	20600
136	GCCGGGCU G UCAUAUUG	3480	CATATTGA GGCTAGCTACAACGA AGCCCGGC	20601
144	GUCAAUAU G CUAAAACG	3481	CGTTTAGG GGCTAGCTACAACGA ATATTGAC	20602
152	GUAAAAC G CGGAAUGC	3482	GCATTCCG GGCTAGCTACAACGA GTTTTAGC	20603
159	CGCGGAU G CCCCAGCU	3483	ACGCGGGG GGCTAGCTACAACGA ATTCCGCG	20604
164	AAUGCCCC G CGUGUUGU	3484	ACAACACG GGCTAGCTACAACGA GGGGCATT	20605
166	UGCCCCGC G UGUUGUCC	3485	GGACAACA GGCTAGCTACAACGA GCGGGGCA	20606
168	CCCCGCGU G UUGUCUUC	3486	AAGGACAA GGCTAGCTACAACGA ACGCGGGG	20607
171	CGCGUGUU G UCCUUGAU	3487	ATCAAGGA GGCTAGCTACAACGA AACACGCG	20608
193	UGAAGAGG G CUAUGUUG	3488	CAACATAG GGCTAGCTACAACGA CCTCTTCA	20609
198	AGGGCUAU G UUGAGCCU	3489	AGGCTCAA GGCTAGCTACAACGA ATAGCCCT	20610
203	UAUGUUGA G CCUGAUCG	3490	CGATCAGG GGCTAGCTACAACGA TCAACATA	20611
215	GAUCGACG G CAAGGGGC	3491	GCCCTTTG GGCTAGCTACAACGA CGTCGATC	20612
222	GGCAAGGG G CCAAUACG	3492	CGTATTGG GGCTAGCTACAACGA CCTTGCC	20613
235	UACGAUUU G UGUUGGCU	3493	AGCCAACA GGCTAGCTACAACGA AAATCGTA	20614
237	CGAUUUGU G UUGGCUCU	3494	AGAGCCAA GGCTAGCTACAACGA ACAATCG	20615
241	UUGUGUUG G CUCUCUUG	3495	CAAGAGAG GGCTAGCTACAACGA CAACACAA	20616
250	CUCUCUUG G CGUUCUUC	3496	GAAGAACG GGCTAGCTACAACGA CAAGAGAG	20617
252	CUCUUGGC G UUCUUCAG	3497	CTGAAGAA GGCTAGCTACAACGA GCCAAGAG	20618
261	UUCUUCAG G UUCACAGC	3498	GCTGTGAA GGCTAGCTACAACGA CTGAAGAA	20619
268	GGUUCACA G CAAUUGCU	3499	AGCAATTG GGCTAGCTACAACGA TGTGAACC	20620
274	CAGCAAUU G CUCCGACC	3500	GGTCGGAG GGCTAGCTACAACGA AATTGCTG	20621
286	CGACCCGA G CAGUGCUG	3501	CAGCACTG GGCTAGCTACAACGA TCGGGTCG	20622
289	CCCGAGCA G UGCUGGAU	3502	ATCCAGCA GGCTAGCTACAACGA TGCTCGGG	20623
291	CGAGCAGU G CUGGAUCG	3503	CGATCCAG GGCTAGCTACAACGA ACTGCTCG	20624
308	AUGGAGAG G UGUGAACA	3504	TGTTTACA GGCTAGCTACAACGA CTCTCCAT	20625
310	GGAGAGGU G UGAACAAA	3505	TTTGTTCG GGCTAGCTACAACGA ACCTCTCC	20626
325	AACAAACA G CGAUGAAA	3506	TTTCATCG GGCTAGCTACAACGA TGTGTTGT	20627
344	CCUUCUGA G UUUUAAGA	3507	TCTTAAAA GGCTAGCTACAACGA TCAGAAGG	20628
374	CUUGACCA G UGCUAUCA	3508	TGATAGCA GGCTAGCTACAACGA TGGTCAAG	20629
376	UGACCAGU G CUAUCAAU	3509	ATTGATAG GGCTAGCTACAACGA ACTGGTCA	20630
387	AUCAUUCG G CGGAGCUC	3510	GAGTCCGG GGCTAGCTACAACGA CGATTGAT	20631
392	UCGGCCGA G CUCAAAAC	3511	GTTTGTAG GGCTAGCTACAACGA TCCGCCGA	20632
430	CCGGAUUU G CAGUCAUG	3512	CATGACTG GGCTAGCTACAACGA AATTCCGG	20633
433	GAAUUGCA G UCAUGAUU	3513	AATCATGA GGCTAGCTACAACGA TGCAATTC	20634
443	CAUGAUUG G CCUGAUCG	3514	CGATCAGG GGCTAGCTACAACGA CAATCATG	20635
451	GCCUGAUC G CCAGCGUA	3515	TACGCTGG GGCTAGCTACAACGA GATCAGGC	20636
455	GAUCGCCA G CGUAGGAG	3516	CTCCTACG GGCTAGCTACAACGA TGGCGATC	20637
457	UCGCCAGC G UAGGAGCA	3517	TGCTCCTA GGCTAGCTACAACGA GCTGGCGA	20638
463	GCGUAGGA G CAGUUAAC	3518	GGTAACCT GGCTAGCTACAACGA TCCTACGC	20639
466	UAGGAGCA G UUAACCCU	3519	GAGGGTAA GGCTAGCTACAACGA TGCTCCTA	20640

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493	AAGGGAAG G UGAUGAUG	3520	CATCATCA GGCTAGCTACAACGA CTTCCCTT	20641
505	UGAUGACG G UAAAUGCU	3521	AGCATTTA GGCTAGCTACAACGA CGTCATCA	20642
511	CGGUAUU G CUACUGAC	3522	GTCAGTAG GGCTAGCTACAACGA ATTTACCG	20643
520	CUACUGAC G UCACAGAU	3523	ATCTGTGA GGCTAGCTACAACGA GTCAGTAG	20644
529	UCACAGAU G UCAUCACG	3524	CGTGATGA GGCTAGCTACAACGA ATCTGTGA	20645
547	UCCAACA G CUGCUGGA	3525	TCCAGCAG GGCTAGCTACAACGA TGTTGGAA	20646
550	CAACAGCU G CUGGAAAG	3526	CTTTCCAG GGCTAGCTACAACGA AGCTGTTG	20647
566	GAACCUAU G CAUUGUCA	3527	TGACAATG GGCTAGCTACAACGA ATAGGTTT	20648
571	UAUGCAU G UCAGAGCA	3528	TGCTCTGA GGCTAGCTACAACGA AATGCATA	20649
577	UUGUCAGA G CAAUGGAU	3529	ATCCATTG GGCTAGCTACAACGA TCTGACAA	20650
586	CAAUGGAU G UGGGAUAC	3530	GTATCCCA GGCTAGCTACAACGA ATCCATTG	20651
597	GGAUACAU G UGCGAUGA	3531	TCATCGCA GGCTAGCTACAACGA ATGTATCC	20652
599	AUACAUGU G CGAUGAUA	3532	TATCATCG GGCTAGCTACAACGA ACATGTAT	20653
623	UUAUGAAU G CCCAGUGC	3533	GCACTGGG GGCTAGCTACAACGA ATTCATAA	20654
628	AAUGCCCA G UGCUGUCG	3534	CGACAGCA GGCTAGCTACAACGA TGGGCATT	20655
630	UGCCGAGU G CUGUCGGC	3535	GCCGACAG GGCTAGCTACAACGA ACTGGGCA	20656
633	CCAGUCGU G UCGGCUUG	3536	CCAGCCGA GGCTAGCTACAACGA AGCACTGG	20657
637	UGCUGUCG G CUGGUAAU	3537	ATTACCAG GGCTAGCTACAACGA CGACAGCA	20658
641	GUCGGCUG G UAAUGAUC	3538	GATCATTG GGCTAGCTACAACGA CAGCCGAC	20659
665	CAUCGACU G UUGGUGCA	3539	TGCACCAA GGCTAGCTACAACGA AGTCGATG	20660
669	GACUGUUG G UGCACAAA	3540	TTTGTGCA GGCTAGCTACAACGA CAACAGTC	20661
671	CUGUUGGU G CACAAAGU	3541	ACTTTGTG GGCTAGCTACAACGA ACCAACAG	20662
678	UGCACAAA G UCAGCAGU	3542	ACTGCTGA GGCTAGCTACAACGA TTTGTGCA	20663
682	CAAGUCA G CAGUCUAC	3543	GTAGACTG GGCTAGCTACAACGA TGACTTTG	20664
685	AGUCAGCA G UCUACGUC	3544	GACGTAGA GGCTAGCTACAACGA TGCTGACT	20665
691	CAGUCUAC G UCAGUAU	3545	ATACCTGA GGCTAGCTACAACGA GTAGACTG	20666
696	UACGUCAG G UAUGGAAG	3546	CTTCCATA GGCTAGCTACAACGA CTGACGTA	20667
707	UGGAAGAU G CACCAAGA	3547	TCTTGGTG GGCTAGCTACAACGA ATCTTCCA	20668
719	CAAGACAC G CCACUCAA	3548	TTGAGTGG GGCTAGCTACAACGA GTGTCTTG	20669
731	CUCAAGAC G CAGUCGGA	3549	TCCGACTG GGCTAGCTACAACGA GTCTTGAG	20670
734	AAGACGCA G UCGGAGGU	3550	ACCTCCGA GGCTAGCTACAACGA TGCGTCTT	20671
741	AGUCGGAG G UCACUGAC	3551	GTCACTGA GGCTAGCTACAACGA TTCCGACT	20672
751	CACUGACA G UGCAGACA	3552	TGCTTGCA GGCTAGCTACAACGA TGTCAGTG	20673
753	CUGACAGU G CAGACACA	3553	TGTGTCTG GGCTAGCTACAACGA ACTGTGAG	20674
770	CGGAGAAA G CACUCUAG	3554	CTAGAGTG GGCTAGCTACAACGA TTTCTCCG	20675
778	GCACUCUA G CGAACAA	3555	CTTGTTCTG GGCTAGCTACAACGA TAGAGTGC	20676
793	AGAAAGGG G CUUGGAUG	3556	CATCCAAG GGCTAGCTACAACGA CCCCTTCT	20677
806	GAUGGACA G CACCAAGG	3557	CCTTGGTG GGCTAGCTACAACGA TGTCATC	20678
814	GCACCAAG G CCACAAGG	3558	CCTTGTGG GGCTAGCTACAACGA CTGTGTC	20679
822	GCCACAAG G UAUUUGGU	3559	ACCAATAA GGCTAGCTACAACGA CTGTGGC	20680
829	GGUAUUUG G UAAAAACA	3560	TGTTTATA GGCTAGCTACAACGA CAAATACC	20681
868	CUGGAUUAU G CCCUGGUG	3561	CACCAGGG GGCTAGCTACAACGA ATATCCAG	20682
874	AUGCCUG G UGGCAGCC	3562	GGCTGCCA GGCTAGCTACAACGA CAGGGCAT	20683
877	CCCUGGUG G CAGCCGUC	3563	GACGCTG GGCTAGCTACAACGA CACCAGGG	20684
880	UGGUGGCA G CCGUCAU	3564	AATGACGG GGCTAGCTACAACGA TGCCACCA	20685
883	UGGCAGCC G UCAUUGGU	3565	ACCAATGA GGCTAGCTACAACGA GGCTGCCA	20686
890	CGUCAUUG G UUGGAUGC	3566	GCATCCAA GGCTAGCTACAACGA CAATGACG	20687
897	GGUUGGAU G CUUGGGAG	3567	CTCCCAAG GGCTAGCTACAACGA ATCCAACC	20688
905	GCUUGGGA G CAACACCA	3568	TGGTGTG GGCTAGCTACAACGA TCCCAAGC	20689
915	AACACCAU G CAGAGAGU	3569	ACTCTCTG GGCTAGCTACAACGA ATGGTGT	20690
922	UGCAGAGA G UUGUGUUU	3570	AAACACAA GGCTAGCTACAACGA TCTCTGCA	20691
925	AGAGAGUU G UGUUUGUC	3571	GACAAACA GGCTAGCTACAACGA AACTCTCT	20692
927	AGAGUUGU G UUGUGCU	3572	ACGACAAA GGCTAGCTACAACGA ACAACTCT	20693
931	UUGUGUUU G UCGUGCUA	3573	TAGCACGA GGCTAGCTACAACGA AAACACAA	20694
934	UGUUGGUC G UGCUAUUG	3574	CAATAGCA GGCTAGCTACAACGA GACAAACA	20695
936	UUUGUGCU G CUAUUGCU	3575	AGCAATAG GGCTAGCTACAACGA ACGACAAA	20696
942	GUGCUAUU G CUUUGGU	3576	ACCAAAAG GGCTAGCTACAACGA AATAGCAC	20697
949	UGCUUUUG G UGGCCCA	3577	TGGGGCCA GGCTAGCTACAACGA CAAAAGCA	20698
952	UUUUGGUG G CCCAGCU	3578	AGCTGGGG GGCTAGCTACAACGA CACCAAAA	20699
958	UGGCCCA G CUUACAGC	3579	GCTGTAAG GGCTAGCTACAACGA TGGGGCCA	20700
965	AGCUUACA G CUUCAACU	3580	AGTTGAAG GGCTAGCTACAACGA TGTAGCT	20701
974	CUUCAACU G CUUGGAA	3581	TTCCAAGG GGCTAGCTACAACGA AGTTGAAG	20702

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986	UGGAAUGA G CAACAGAG	3582	CTCTGTTG GGCTAGCTACAACGA TCATTCCA	20703
1009	UGGAAGGA G UGUCUGGA	3583	TCCAGACA GGCTAGCTACAACGA TCCTTCCA	20704
1011	GAAGGAGU G UCUGGAGC	3584	GCTCCAGA GGCTAGCTACAACGA ACTCCTTC	20705
1018	UGUCUGGA G CAACAUGG	3585	CCATGTTG GGCTAGCTACAACGA TCCAGACA	20706
1027	CAACAUGG G UGGAUUUG	3586	CAAATCCA GGCTAGCTACAACGA CCATGTTG	20707
1036	UGGAUUUG G UUCUCGAA	3587	TTCGAGAA GGCTAGCTACAACGA CAAATCCA	20708
1046	UCUCGAAG G CGACAGCU	3588	AGCTGTCG GGCTAGCTACAACGA CTTCGAGA	20709
1052	AGGCGACA G CUGCGUGA	3589	TCACGCAG GGCTAGCTACAACGA TGTGCGCT	20710
1055	CGACAGCU G CGUGACUA	3590	TAGTCACG GGCTAGCTACAACGA AGCTGTCG	20711
1057	ACAGCTGC G UGACUAUC	3591	GATAGTCA GGCTAGCTACAACGA GCAGCTGT	20712
1068	ACUAUCAU G UCUAAGGA	3592	TCCTTAGA GGCTAGCTACAACGA ATGATAGT	20713
1080	AAGGACAA G CCUACCAU	3593	ATGCTAGG GGCTAGCTACAACGA TTGTCCTT	20714
1093	CCAUCGAU G UGAAGAUG	3594	CATCTTCA GGCTAGCTACAACGA ATCGATGG	20715
1114	AUAUGGAG G CGGUCAAC	3595	GTTGACCG GGCTAGCTACAACGA CTCATAT	20716
1117	UGGAGGCG G UCAACCUG	3596	CAGGTTGA GGCTAGCTACAACGA CGCCTCCA	20717
1126	UCAACCUG G CAGAGGUC	3597	GACCTCTG GGCTAGCTACAACGA CAGGTTGA	20718
1132	UGGCAGAG G UCCGCAGU	3598	ACTGCGGA GGCTAGCTACAACGA CTCTGCCA	20719
1136	AGAGGUCC G CAGUUAUU	3599	AATAACTG GGCTAGCTACAACGA GGACCTCT	20720
1139	GGUCCGCA G UUAUUGCU	3600	AGCAATAA GGCTAGCTACAACGA TGC GGACC	20721
1145	CAGUUAUU G CUUUUGG	3601	CCAAATAG GGCTAGCTACAACGA AATAACTG	20722
1153	GCUAUUUG G CUACCGUC	3602	GACGGTAG GGCTAGCTACAACGA CAAATAGC	20723
1159	UGGCUACC G UCAGCGAU	3603	ATCGCTGA GGCTAGCTACAACGA GGTAGCCA	20724
1163	UACCGUCA G CGAUCUCU	3604	AGAGTACG GGCTAGCTACAACGA TGACGTA	20725
1180	CCACCAA G CUGCGUGC	3605	GCACGCAG GGCTAGCTACAACGA TTTGGTGG	20726
1183	CCAAAGCU G CGUGCCCG	3606	CGGGCAGG GGCTAGCTACAACGA AGCTTTGG	20727
1185	AAAGCUGC G UGCCCGAC	3607	GTCGGGCA GGCTAGCTACAACGA GCAGCTTT	20728
1187	AGCUGCGU G CCCGACCA	3608	TGGTCGGG GGCTAGCTACAACGA ACGCAGCT	20729
1204	UGGGAGAA G CUCACAAU	3609	ATTGTGAG GGCTAGCTACAACGA TTCTCCCA	20730
1220	UGACAAAC G UGCUGACC	3610	GGTCAGCA GGCTAGCTACAACGA GTTTGTCA	20731
1222	ACAAACGU G CUGACCCA	3611	TGGGTGAG GGCTAGCTACAACGA ACGTTTGT	20732
1231	CUGACCCA G CUUUUGUG	3612	CACAAAAG GGCTAGCTACAACGA TGGGTCAG	20733
1237	CAGCUUUU G UGUGCAGA	3613	TCTGCACA GGCTAGCTACAACGA AAAAGCTG	20734
1239	GCUUUUGU G UGCAGACA	3614	TGTCTGCA GGCTAGCTACAACGA ACAAAGC	20735
1241	UUUUUGUGU G CAGACAAAG	3615	CTTGTCTG GGCTAGCTACAACGA ACACAAA	20736
1252	GACAAGGA G UGGUGGAC	3616	GTCCACCA GGCTAGCTACAACGA TCCTTGTG	20737
1255	AAGGAGUG G UGGACAGG	3617	CCTGTCCA GGCTAGCTACAACGA CACTCCTT	20738
1265	GGACAGGG G CUGGGGCA	3618	TGCCCCAG GGCTAGCTACAACGA CCCTGTCC	20739
1271	GGGCUGGG G CAACGGCU	3619	AGCGGTTG GGCTAGCTACAACGA CCCAGCCC	20740
1277	GGGCAACG G CUGCGGAU	3620	ATCCGCAG GGCTAGCTACAACGA CGTTGCC	20741
1280	CAACGGCU G CGGAUUUAU	3621	ATAATCCG GGCTAGCTACAACGA AGCCGTTG	20742
1292	AUUUUUUG G CAAAGGAA	3622	TTCCTTTG GGCTAGCTACAACGA CAAATAAT	20743
1301	CAAAGGAA G CAUUGACA	3623	TGTCAATG GGCTAGCTACAACGA TTCCTTTG	20744
1313	UGACACAU G CGCCAAAU	3624	ATTTGGCG GGCTAGCTACAACGA ATGTGTCA	20745
1315	ACACAUGC G CCAAAUUU	3625	AAATTTGG GGCTAGCTACAACGA GCATGTGT	20746
1324	CCAAUUUU G CCUGCUCU	3626	AGAGCAGG GGCTAGCTACAACGA AAATTTGG	20747
1328	AUUUGCCU G CUCUACCA	3627	TGGTAGAG GGCTAGCTACAACGA AGGCAAT	20748
1339	CUACCAAG G CAUAGGA	3628	TCCTATTG GGCTAGCTACAACGA CTGGGTAG	20749
1374	AAUAUCAA G UACGAAGU	3629	ACTTCGTA GGCTAGCTACAACGA TTGATATT	20750
1381	AGUACGAA G UGGCAUUU	3630	AATGGCCA GGCTAGCTACAACGA TTCGTACT	20751
1384	ACGAAGUG G CCAUUUUU	3631	AAAAATGG GGCTAGCTACAACGA CACTTCGT	20752
1393	CCAUUUUU G UCCAUGGA	3632	TCCATGGA GGCTAGCTACAACGA AAAAATGG	20753
1411	CAACUACU G UGGAGUCG	3633	CGACTCCA GGCTAGCTACAACGA AGTAGTTG	20754
1416	ACUGUGGA G UCGCACGG	3634	CCGTGCGA GGCTAGCTACAACGA TCCACAGT	20755
1419	GUGGAGUC G CACGAAA	3635	TTTCCGTG GGCTAGCTACAACGA GACTCCAC	20756
1441	CCACACAG G UUGGAGCC	3636	GGCTCCAA GGCTAGCTACAACGA CTGTGTGG	20757
1447	AGGUUGGA G CCACUCAG	3637	CTGAGTGG GGCTAGCTACAACGA TCCAACCT	20758
1456	CCACUCAG G CAGGAGAA	3638	TCTCCTTG GGCTAGCTACAACGA CTGAGTGG	20759
1469	GAGAUUCA G CAUCACUC	3639	GAGTGATG GGCTAGCTACAACGA TGAATCTC	20760
1480	UCACUCCU G CGGCGCCU	3640	AGGCGCCG GGCTAGCTACAACGA AGGAGTGA	20761
1483	CUCUGCGG G CGCCUUCA	3641	TGAAGGCG GGCTAGCTACAACGA CGCAGGAG	20762
1485	CCUGCGGC G CCUCAUA	3642	TATGAAGG GGCTAGCTACAACGA GCCGCAGG	20763
1503	ACACUAAA G CUUGGAGA	3643	TCTCCAAG GGCTAGCTACAACGA TTTAGTGT	20764

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1522	AUGGAGAG G UGACAGUG	3644	CACTGTCA GGCTAGCTACAACGA CTCTCCAT	20765
1528	AGGUGACA G UGGACUGU	3645	ACAGTCCA GGCTAGCTACAACGA TGTCACCT	20766
1535	AGUGGACU G UGAACCAC	3646	GTGGTTCA GGCTAGCTACAACGA AGTCCACT	20767
1545	GAACCACG G UCAGGGAU	3647	ATCCCTGA GGCTAGCTACAACGA CGTGGTTC	20768
1564	ACACCAAU G CAUACUAC	3648	GTAGTATG GGCTAGCTACAACGA ATTGGTGT	20769
1573	CAUACUAC G UGAUGACU	3649	AGTCATCA GGCTAGCTACAACGA GTAGTATG	20770
1582	UGAUGACU G UUGGAACA	3650	TGTTCCAA GGCTAGCTACAACGA AGTCATCA	20771
1596	ACAAAGAC G UUCUUGGU	3651	ACCAAGAA GGCTAGCTACAACGA GTCTTTGT	20772
1603	CGUUCUUG G UCCAUCGU	3652	ACGATGGA GGCTAGCTACAACGA CAAGAACG	20773
1610	GGUCCAUC G UGAGUGGU	3653	ACCACTCA GGCTAGCTACAACGA GATGGACC	20774
1614	CAUCGUGA G UGUUUCAU	3654	ATGAACCA GGCTAGCTACAACGA TCACGATG	20775
1617	CGUGAGUG G UUCAUGGA	3655	TCCATGAA GGCTAGCTACAACGA CACTCACG	20776
1643	CCCUUGGA G CAGUGCUG	3656	CAGCACTG GGCTAGCTACAACGA TCCAAGGG	20777
1646	UUGGAGCA G UGCUGGAA	3657	TTCCAGCA GGCTAGCTACAACGA TGCTCCAA	20778
1648	GGAGCAGU G CUGGAAGU	3658	ACTTCCAG GGCTAGCTACAACGA ACTGCTCC	20779
1655	UGCUGGAA G UACUGUGU	3659	ACACAGTA GGCTAGCTACAACGA TTCCAGCA	20780
1660	GAAGUACU G UGUGGAGG	3660	CCTCCACA GGCTAGCTACAACGA AGTACTTC	20781
1662	AGUACUGU G UGGAGGAA	3661	TTCTTCCA GGCTAGCTACAACGA ACAGTACT	20782
1680	AGAGAGAC G UUAUUGGA	3662	TCCATTAA GGCTAGCTACAACGA GTCTCTCT	20783
1689	UUAUUGGA G UUUGAGGA	3663	TCCTCAA GGCTAGCTACAACGA TCCATTAA	20784
1705	AACCACAG G CCACGAAG	3664	CTTCGTGG GGCTAGCTACAACGA GTGTGGTT	20785
1713	GCCACGAA G CAGUCUGU	3665	ACAGACTG GGCTAGCTACAACGA TTCGTGGC	20786
1716	ACGAAGCA G UCUGUGAU	3666	ATCAGCA GGCTAGCTACAACGA TGCTTCGT	20787
1720	AGCAGUCU G UGAUAGCA	3667	TGCTATCA GGCTAGCTACAACGA AGACTGCT	20788
1726	CUGUGAUA G CAUUGGGC	3668	GCCCAATG GGCTAGCTACAACGA TATCACAG	20789
1733	AGCAUUGG G CUCACAAG	3669	CTTGTGAG GGCTAGCTACAACGA CCAATGCT	20790
1747	AAGAGGGA G CUCUGCAU	3670	ATGCAGAG GGCTAGCTACAACGA TCCCTCTT	20791
1752	GGAGCUCU G CAUCAAGC	3671	GCTTGATG GGCTAGCTACAACGA AGAGCTCC	20792
1759	UGCAUCA A G CUUUGGCU	3672	AGCCAAAG GGCTAGCTACAACGA TTGATGCA	20793
1765	AAGCUUUG G CUGGAGCC	3673	GGCTCCAG GGCTAGCTACAACGA CAAAGCTT	20794
1771	UGGUGGGA G CCAUCCU	3674	AGGAATGG GGCTAGCTACAACGA TCCAGCCA	20795
1780	CCAUCCU G UGGAUUU	3675	AAATTCCA GGCTAGCTACAACGA AGGAATGG	20796
1793	AUUUCAA G CAACACUG	3676	CAGTGTGG GGCTAGCTACAACGA TTGAAAT	20797
1801	GCAACACU G UCAAGUUG	3677	CAACTTGA GGCTAGCTACAACGA AGTGTGTC	20798
1806	ACUGUCA A G UGACGUC	3678	GACGTCAA GGCTAGCTACAACGA TTGACAGT	20799
1812	AAGUUGAC G UCGGGUCA	3679	TGACCCGA GGCTAGCTACAACGA GTCAACTT	20800
1817	GACGUCGG G UCAUUUGA	3680	TCAAATGA GGCTAGCTACAACGA CCGACGTC	20801
1827	CAUUUGAA G UGUAGAGU	3681	ACTCTACA GGCTAGCTACAACGA TTCAAATG	20802
1829	UUUGAAGU G UAGAGUGA	3682	TCACTCTA GGCTAGCTACAACGA ACTTCAA	20803
1834	AGUGUAGA G UGAAGAUG	3683	CATCTTCA GGCTAGCTACAACGA TCTACACT	20804
1851	GAAAAAUU G CAGUUGAA	3684	TTCAACTG GGCTAGCTACAACGA AATTTTTC	20805
1854	AAAUUGCA G UUGAAGGG	3685	CCCTTCAA GGCTAGCTACAACGA TGCAATTT	20806
1874	AACCUAUG G CGUCUGUU	3686	AACAGACG GGCTAGCTACAACGA CATAGGTT	20807
1876	CCUAUGGC G UCUGUUCA	3687	TGAACAGA GGCTAGCTACAACGA GCCATAGG	20808
1880	UGGCGUCU G UUCAAGG	3688	CCTTTGAA GGCTAGCTACAACGA AGACGCCA	20809
1888	GUUCAAG G CUUCAAG	3689	CTTGAAAG GGCTAGCTACAACGA CTTTGAAC	20810
1896	GCUUUCA A G UUUUUGG	3690	CCAAGAAA GGCTAGCTACAACGA TTGAAGGC	20811
1912	GGACUCCC G CAGACACA	3691	TGTGTCTG GGCTAGCTACAACGA GGGAGTCC	20812
1922	AGACACAG G UCACGGCA	3692	TGCCGTGA GGCTAGCTACAACGA CTGTGTCT	20813
1928	AGGUCACG G CACUGUGG	3693	CCACAGTG GGCTAGCTACAACGA CGTGACCT	20814
1933	ACGGCACU G UGUGUUUG	3694	CAACACCA GGCTAGCTACAACGA AGTGCCGT	20815
1936	GCACUGUG G UGUUGGAA	3695	TTCCAACA GGCTAGCTACAACGA CACAGTGC	20816
1938	ACUGUGGU G UUGGAAUU	3696	AATTCCAA GGCTAGCTACAACGA ACCACAGT	20817
1947	UUGGAAUU G CAGUACAC	3697	GTGACTG GGCTAGCTACAACGA AATTCCAA	20818
1950	GAAUUGCA G UACACUGG	3698	CAGCTGTA GGCTAGCTACAACGA TGCAATTC	20819
1958	GUACACUG G CACGGAUG	3699	CATCCGTG GGCTAGCTACAACGA CAGTGTAC	20820
1973	UGGACCUU G CAAAGUUC	3700	GAACTTTG GGCTAGCTACAACGA AAGGTCCA	20821
1978	CUUGCAA A G UUCCUAC	3701	GATAGGAA GGCTAGCTACAACGA TTTGCAAG	20822
1989	CCUACUC G UCAGUGGC	3702	GCCACTGA GGCTAGCTACAACGA GAGATAGG	20823
1993	UCUCGUCA G UGGCUUCA	3703	TGAAGCCA GGCTAGCTACAACGA TGACGAGA	20824
1996	CGUCAGUG G CUUCAUUG	3704	CAATGAAG GGCTAGCTACAACGA CACTGACG	20825
2016	GACCUAAC G CCAGUGGG	3705	CCCCTGG GGCTAGCTACAACGA GTTAGGTC	20826

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2020	UAACGCCA G UGGGCAGA	3706	TCTGCCCA GGCTAGCTACAACGA TGGCGTTA	20827
2024	GCCAGUGG G CAGAUUGG	3707	CCAATCTG GGCTAGCTACAACGA CCACTGGC	20828
2032	GCAGAUUG G UCACUGUC	3708	GACAGTGA GGCTAGCTACAACGA CAATCTGC	20829
2038	UGGUCACU G UCAACCCU	3709	AGGGTTGA GGCTAGCTACAACGA AGTGACCA	20830
2050	ACCCUUUU G UUUCAGUG	3710	CACTGAAA GGCTAGCTACAACGA AAAAGGGT	20831
2056	UUGUUUCA G UGGCCACG	3711	CGTGGCCA GGCTAGCTACAACGA TGAACAA	20832
2059	UUUCAGUG G CCACGGCC	3712	GGCCGTGG GGCTAGCTACAACGA CACTGAAA	20833
2065	UGGCCACG G CCAACGCU	3713	AGCGTTGG GGCTAGCTACAACGA CGTGGCCA	20834
2071	CGGCCAAC G CUAAGGUC	3714	GACCTTAG GGCTAGCTACAACGA GTTGGCCG	20835
2077	ACGCUAAG G UCCUGAUU	3715	AATCAGGA GGCTAGCTACAACGA CTTAGCGT	20836
2119	CAUACAUA G UGGUGGGC	3716	GCCCCA GGCTAGCTACAACGA TATGTATG	20837
2122	ACAUAGUG G UGGGCAGA	3717	TCTGCCCA GGCTAGCTACAACGA CACTATGT	20838
2126	AGUGGUGG G CAGAGGAG	3718	CTCCTCTG GGCTAGCTACAACGA CCACCACT	20839
2157	CACCAUUG G CACAAGUC	3719	GACTTGTG GGCTAGCTACAACGA CAATGGTG	20840
2163	UGGCACAA G UCUGGAAG	3720	CTTCCAGA GGCTAGCTACAACGA TTGTGCCA	20841
2171	GUCUGGAA G CAGCAUUG	3721	CAATGAGA GGCTAGCTACAACGA TTCCAGAC	20842
2174	UGGAAGCA G CAUUGGCA	3722	TGCCAATG GGCTAGCTACAACGA TGCTTCCA	20843
2180	CAGCAUUG G CAAAGCCU	3723	AGGCTTTG GGCTAGCTACAACGA CAATGCTG	20844
2185	UUGGCAAA G CCUUUACA	3724	TGTAAAGG GGCTAGCTACAACGA TTTGCCAA	20845
2209	UCAAGGA G CGCAGAGA	3725	TCTCTGCG GGCTAGCTACAACGA TCCTTTGA	20846
2211	AAAGGAGC G CAGAGACU	3726	AGTCTCTG GGCTAGCTACAACGA GCTCCTTT	20847
2221	AGAGACUA G CCGCUCUA	3727	TAGAGCGG GGCTAGCTACAACGA TAGTCTCT	20848
2224	GACUAGCC G CUCUAGGA	3728	TCCTAGA GGCTAGCTACAACGA GGTAGTC	20849
2239	GAGACACA G CUUGGGAC	3729	GTCCCAAG GGCTAGCTACAACGA TGTGTCTC	20850
2257	UUGGAUCA G UUGGAGGG	3730	CCCTCCAA GGCTAGCTACAACGA TGATCCAA	20851
2266	UUGGAGGG G UGUUACC	3731	GGTGAACA GGCTAGCTACAACGA CCCTCCAA	20852
2268	GGAGGGGU G UUCACCUC	3732	GAGGTGAA GGCTAGCTACAACGA ACCCTCC	20853
2278	UCACCUCA G UUGGGAAG	3733	CTTCCCAA GGCTAGCTACAACGA TGAGGTGA	20854
2287	UUGGGAAG G CUGUCCAU	3734	ATGGACAG GGCTAGCTACAACGA CTTCCCAA	20855
2290	GGAAGGCU G UCCAUCAA	3735	TTGATGGA GGCTAGCTACAACGA AGCCTTCC	20856
2299	UCCAUCAA G UGUUCGGA	3736	TCCGAACA GGCTAGCTACAACGA TTGATGGA	20857
2301	CAUCAAGU G UUCGGAGG	3737	CCTCCGAA GGCTAGCTACAACGA ACTGTATG	20858
2311	UCGGAGGA G CAUUCGCG	3738	GCGGAATG GGCTAGCTACAACGA TCCTCCGA	20859
2318	AGCAUUCG G CUCACUGU	3739	ACAGTGAG GGCTAGCTACAACGA GGAATGCT	20860
2325	CGCUCACU G UUCGGAGG	3740	CCTCCGAA GGCTAGCTACAACGA AGTGAGCG	20861
2333	GUUCGGAG G CAUGUCCU	3741	AGGACATG GGCTAGCTACAACGA CTCGGAAC	20862
2337	GGAGGCAU G UCCUGGAU	3742	ATCCAGGA GGCTAGCTACAACGA ATGCCTCC	20863
2349	UGGAUAAC G CAAGGAU	3743	AATCCTTG GGCTAGCTACAACGA GTTATCCA	20864
2358	CAAGGAU G CUGGGGGC	3744	GCCCCAG GGCTAGCTACAACGA AATCCTTG	20865
2365	UGCUGGGG G CUCUCCUG	3745	CAGGAGAG GGCTAGCTACAACGA CCCCAGCA	20866
2373	GCUCUCCU G UUGUGGAU	3746	ATCCACAA GGCTAGCTACAACGA AGGAGAGC	20867
2376	CUCUUGUU G UGGAUGGG	3747	CCCATCCA GGCTAGCTACAACGA AACAGGAG	20868
2384	GUGGAUGG G CAUCAUUG	3748	CATTGATG GGCTAGCTACAACGA CCATCCAC	20869
2392	GCAUCAAU G CUCUGUAU	3749	ATCACGAG GGCTAGCTACAACGA ATTGATGC	20870
2396	CAAUGCUC G UGAUAGGU	3750	ACCTATCA GGCTAGCTACAACGA GAGCATTG	20871
2403	CGUGAUAG G UCCAUAGC	3751	GCTATGGA GGCTAGCTACAACGA CTATCACG	20872
2410	GGUCCAUA G CUCUCACG	3752	CGTGAGAG GGCTAGCTACAACGA TATGGACC	20873
2418	GCUCUCAC G UUCUCGCG	3753	GCGAGAAA GGCTAGCTACAACGA GTGAGAGC	20874
2425	CGUUUCUC G CAGUUGGA	3754	TCCAAGTG GGCTAGCTACAACGA GAGAAACG	20875
2428	UUCUCGCA G UUGGAGGA	3755	TCCTCCAA GGCTAGCTACAACGA TCGAGAAA	20876
2437	UUGGAGGA G UUCUGCUC	3756	GAGCAGAA GGCTAGCTACAACGA TCCTCCAA	20877
2442	GGAGUUCU G CUCUCCU	3757	AGGAAGAG GGCTAGCTACAACGA AGAATCTC	20878
2455	UCCUCUCC G UGAACGUG	3758	CACGTTCA GGCTAGCTACAACGA GGAGAGGA	20879
2461	CCGUGAAC G UGCACGCU	3759	AGCGTGCA GGCTAGCTACAACGA GTTCACGG	20880
2463	GUGAACGU G CACGCUGA	3760	TCAGCGTG GGCTAGCTACAACGA ACGTTCAC	20881
2467	ACGUGCAC G CUGACACU	3761	AGTGTGAG GGCTAGCTACAACGA GTGCACGT	20882
2478	GACACUGG G UGUGCCAU	3762	ATGGCACA GGCTAGCTACAACGA CCAATGTC	20883
2480	CACUGGGU G UGCCAUAG	3763	CTATGGCA GGCTAGCTACAACGA ACCCAGTG	20884
2482	CUGGGUGU G CCAUAGAC	3764	GTCTATGG GGCTAGCTACAACGA ACACCCAG	20885
2495	AGACAUCA G CCGGCAAG	3765	CTTGCCGG GGCTAGCTACAACGA TGATGTCT	20886
2499	AUCAGCCG G CAAGAGCU	3766	AGCTCTTG GGCTAGCTACAACGA CGGCTGAT	20887
2505	CGGCAAGA G CUGAGAUG	3767	CATCTCAG GGCTAGCTACAACGA TCTTCCCG	20888

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2513	GCUGAGAU G UGGAAGUG	3768	CACTTCCA GGCTAGCTACAACGA ATCTCAGC	20889
2519	AUGUGGAA G UGAGUGU	3769	ACACTCCA GGCTAGCTACAACGA TTCCACAT	20890
2524	GAAGUGGA G UGUUCAUA	3770	TATGAACA GGCTAGCTACAACGA TCCACTTC	20891
2526	AGUGGAGU G UUCAUACA	3771	TGTATGAA GGCTAGCTACAACGA ACTCCACT	20892
2542	ACAAUGAU G UGGAGGCU	3772	AGCCTCCA GGCTAGCTACAACGA ATCATTGT	20893
2548	AUGUGGAG G CUUGGAUG	3773	CATCCAAG GGCTAGCTACAACGA CTCCACAT	20894
2562	AUGGACCG G UACAAGUA	3774	TACTTGTA GGCTAGCTACAACGA CGGTCCAT	20895
2568	CGGUACAA G UAUUACCC	3775	GGGTAATA GGCTAGCTACAACGA TTGTACCG	20896
2583	CCUGAAC G CCACAAGG	3776	CCTTGTGG GGCTAGCTACAACGA GTTTCAGG	20897
2591	GCCACAAG G CCUAGCCA	3777	TGGCTAGG GGCTAGCTACAACGA CTTGTGGC	20898
2596	AAGGCCUA G CCAAGAUC	3778	GATCTTGG GGCTAGCTACAACGA TAGGCCTT	20899
2614	UUCAGAAA G CUCAUAAG	3779	CTTATGAG GGCTAGCTACAACGA TTTCTGAA	20900
2629	AGGAAGGA G UGUGCGGU	3780	ACCGCACA GGCTAGCTACAACGA TCCTTCCT	20901
2631	GAAGGAGU G UGCGGUCU	3781	AGACCGCA GGCTAGCTACAACGA ACTCCTTC	20902
2633	AGGAGUGU G CGGUCUAC	3782	GTAGACCG GGCTAGCTACAACGA ACACTCCT	20903
2636	AGUGUGCG G UCUACGAU	3783	ATCGTAGA GGCTAGCTACAACGA CGCACACT	20904
2647	UACGAUCA G UUUCCAGA	3784	TCTGGAAA GGCTAGCTACAACGA TGATCGTA	20905
2661	AGACUGGA G CAUCAAAU	3785	ATTTGATG GGCTAGCTACAACGA TCCAGTCT	20906
2670	CAUCAAAU G UGGGAAGC	3786	GCTTCCA GGCTAGCTACAACGA ATTTGATG	20907
2677	UGUGGGAA G CAGUGAAG	3787	CTTCACTG GGCTAGCTACAACGA TTTCCACA	20908
2680	GGGAAGCA G UGAAGGAC	3788	GTCCTTCA GGCTAGCTACAACGA TGCTTCCC	20909
2691	AAGGACGA G CUGAACAC	3789	GTGTTTCA GGCTAGCTACAACGA TCGTCTCT	20910
2717	GGAGAAUG G UGUGGACC	3790	GGTCCACA GGCTAGCTACAACGA CATTCTCC	20911
2719	AGAAUGGU G UGGACCUU	3791	AAGGTCCA GGCTAGCTACAACGA ACCATTCT	20912
2729	GGACCUUA G UGUCGUGG	3792	CCACGACA GGCTAGCTACAACGA TAAGGTCC	20913
2731	ACCUUAGU G UCGUGGUU	3793	AACCACGA GGCTAGCTACAACGA ACTAAGGT	20914
2734	UUAGUGUC G UGGUUGAG	3794	CTCAACCA GGCTAGCTACAACGA GACACTAA	20915
2737	GUGUCGUG G UUGAGAAA	3795	TTTCTCAA GGCTAGCTACAACGA CACGACAC	20916
2757	GAGGGAAU G UACAAGUC	3796	GACTTGTA GGCTAGCTACAACGA ATTCCCTC	20917
2763	AUGUACAA G UCAGCACC	3797	GGTGTCTG GGCTAGCTACAACGA TTGTACAT	20918
2767	ACAAGUCA G CACCUAAA	3798	TTTAGGTG GGCTAGCTACAACGA TGACTTGT	20919
2777	ACCUAAC G CCUCACCG	3799	CGGTGAGG GGCTAGCTACAACGA GTTTAGGT	20920
2785	GCCUCACC G CCACCACG	3800	CGTGGTGG GGCTAGCTACAACGA GGTGAGGC	20921
2810	GGAAUUG G CUGGAAGG	3801	CCTTCCAG GGCTAGCTACAACGA CAATTTCC	20922
2818	GCUGGAAG G CCUGGGGA	3802	TCCCAGG GGCTAGCTACAACGA CTTCAGC	20923
2831	GGGAAGA G UAUUUUAU	3803	ATAAATA GGCTAGCTACAACGA TCTTTCCC	20924
2842	UUUUAUUU G CACCAGAA	3804	TTCTGGTG GGCTAGCTACAACGA AAATAAAA	20925
2854	CAGAACUC G CCAACAAC	3805	GTTGTTGG GGCTAGCTACAACGA GAGTTCTG	20926
2869	ACACUUU G UGGUUGAU	3806	ATCAACCA GGCTAGCTACAACGA AAAGTTGT	20927
2872	CCUUGUG G UUGAUGGU	3807	ACCATCAA GGCTAGCTACAACGA CACAAAGG	20928
2879	GGUUGAUG G UCCGGAGA	3808	TCTCCGGA GGCTAGCTACAACGA CATCAACC	20929
2897	CAAGGAU G UCCGACUC	3809	GAGTCGGA GGCTAGCTACAACGA ATTCTTGT	20930
2912	UCAGAAUC G CGCUUGGA	3810	TCCAAGCG GGCTAGCTACAACGA GATTCTGA	20931
2914	AGAAUCGC G CUUGGAAU	3811	ATTCCAAG GGCTAGCTACAACGA GCGATTCT	20932
2924	UUGGAAUA G CUUAGAAG	3812	CTTCTAAG GGCTAGCTACAACGA TATTCCAA	20933
2932	GCUAGAA G UGGAGGAU	3813	ATCCTCCA GGCTAGCTACAACGA TTCTAAGC	20934
2951	UGGAUUUG G UCUCACCA	3814	TGGTGAGA GGCTAGCTACAACGA CAAATCCA	20935
2960	UCUCACCA G CACUCGGA	3815	TCCGAGTG GGCTAGCTACAACGA TGGTGAGA	20936
2970	ACUCGGAU G UUCUGAA	3816	TTCAGGAA GGCTAGCTACAACGA ATCCGAGT	20937
2980	UCCUGAAG G UCAGAGAG	3817	CTCTCTGA GGCTAGCTACAACGA CTTCAGGA	20938
2990	CAGAGAGA G CAACACAA	3818	TTGTGTG GGCTAGCTACAACGA TCTCTCTG	20939
3005	AACUGAAU G UGACUCGA	3819	TCGAGTCA GGCTAGCTACAACGA ATTCAAGT	20940
3028	UUGGAACG G CUGUCAAG	3820	CTTGACAG GGCTAGCTACAACGA CGTTCCAA	20941
3031	GAACGGCU G UCAAGAAC	3821	GTTCTTGA GGCTAGCTACAACGA AGCCGTTT	20942
3046	ACAACUUG G CGAUCCAC	3822	GTGGATCG GGCTAGCTACAACGA CAAGTTGT	20943
3056	GAUCCACA G UGACCUGU	3823	ACAGGTCA GGCTAGCTACAACGA TGTGGATC	20944
3063	AGUGACCU G UCCUAUUG	3824	CAATAGGA GGCTAGCTACAACGA AGGTCACT	20945
3080	GAUUGAAA G CAGGCUCA	3825	TGAGCTTG GGCTAGCTACAACGA TTTCAATC	20946
3084	GAAAGCAG G CUCAAUGA	3826	TCATTGAG GGCTAGCTACAACGA CTGCTTTC	20947
3096	AAUGAUAC G UGGAAGCU	3827	AGCTTCCA GGCTAGCTACAACGA GTATCATT	20948
3102	ACGUGGAA G CUUGAAAG	3828	CTTTCAAG GGCTAGCTACAACGA TTCCACGT	20949
3112	UUGAAAGG G CAGUUCUG	3829	CAGAACTG GGCTAGCTACAACGA CCTTTCAA	20950

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3115	AAAGGGCA G UUCUGGGU	3830	ACCCAGAA GGCTAGCTACAACGA TGCCCTTT	20951
3122	AGUUCUGG G UGAAGUCA	3831	TGACTTCA GGCTAGCTACAACGA CCAGAACT	20952
3127	UGGGUGAA G UCAAAUCA	3832	TGATTGTA GGCTAGCTACAACGA TTCACCCA	20953
3137	CAAAUCAU G UACGUGGC	3833	GCCACGTA GGCTAGCTACAACGA ATGATTTG	20954
3141	UCAUGUAC G UGGCCUGA	3834	TCAGGCCA GGCTAGCTACAACGA GTACATGA	20955
3144	UGUACGUG G CCUGAGAC	3835	GTCTCAGG GGCTAGCTACAACGA CACGTACA	20956
3153	CCUGAGAC G CAUACCUU	3836	AAGGTATG GGCTAGCTACAACGA GTCTCAGG	20957
3162	CAUACCUU G UGGGGCGA	3837	TCGCCCCA GGCTAGCTACAACGA AAGGTATG	20958
3167	CUUGUGGG G CGAUGGAA	3838	TTCCATCG GGCTAGCTACAACGA CCCACAAG	20959
3185	CCUUGAGA G UGACUUGA	3839	TCAAGTCA GGCTAGCTACAACGA TCTCAAGG	20960
3202	UAAUACCA G UCACACUG	3840	CAGTGTGA GGCTAGCTACAACGA TGGTATTA	20961
3211	UCACACUG G CGGGACCA	3841	TGGTCCCG GGCTAGCTACAACGA CAGTGTGA	20962
3224	ACCACGAA G CAAUCACA	3842	TGTGATTG GGCTAGCTACAACGA TTCGTGGT	20963
3246	AGACCUGG G UACAAGAC	3843	GTCTTGTA GGCTAGCTACAACGA CCAGGTCT	20964
3266	AAACCAGG G CCCAUGGG	3844	CCCATGGG GGCTAGCTACAACGA CCTGGTTT	20965
3281	GGACGAAG G CCGGGUAG	3845	CTACCCGG GGCTAGCTACAACGA CTCGTCC	20966
3286	AAGGCCGG G UAGAGAUU	3846	AATCTCTA GGCTAGCTACAACGA CCGGCCCT	20967
3308	CGAUUACU G CCCAGGAA	3847	TTCCTGGG GGCTAGCTACAACGA AGTAATCG	20968
3322	GAACUACG G UCACCCUG	3848	CAGGTGTA GGCTAGCTACAACGA CGTAGTTC	20969
3332	CACCUGA G UGAGAGCU	3849	AGCTCTCA GGCTAGCTACAACGA TCAGGGTG	20970
3338	GAGUGAGA G CUGCGGAC	3850	GTCCGCAG GGCTAGCTACAACGA TCTCACTC	20971
3341	UGAGAGCU G CGGACACC	3851	GGTGTCCG GGCTAGCTACAACGA AGCTCTCA	20972
3350	CGGACACC G UGGACCUG	3852	CAGGTCCA GGCTAGCTACAACGA GGTGTCCG	20973
3358	GUGGACCU G CCACUCGC	3853	GCGAGTGG GGCTAGCTACAACGA AGGTCCAC	20974
3365	UGCCACTUC G CACCACCA	3854	TGGTGGTG GGCTAGCTACAACGA GAGTGGCA	20975
3380	CACAGAGA G CGGAAAGU	3855	ACTTTCCG GGCTAGCTACAACGA TCTCTGTG	20976
3387	AGCGGAAA G UUGAUAA	3856	GTTATCAA GGCTAGCTACAACGA TTTCCGCT	20977
3402	ACAGAUUG G UGCUGCAG	3857	CTGCAGCA GGCTAGCTACAACGA CAATCTGT	20978
3404	AGAUUGGU G CUGCAGGA	3858	TCCTGCAG GGCTAGCTACAACGA ACCAATCT	20979
3407	UUGGUGCU G CAGGAGCU	3859	AGTCTCTG GGCTAGCTACAACGA AGCACCAG	20980
3413	CUGCAGGA G CUGCACC	3860	AGGTGCAG GGCTAGCTACAACGA TCCTGCAG	20981
3416	CAGGAGCU G CACCUUAC	3861	GTAAGGTG GGCTAGCTACAACGA AGTCTCTG	20982
3432	CCACCACU G CGCUACCA	3862	TGGTAGCG GGCTAGCTACAACGA AGTGGTGG	20983
3434	ACCACUGC G CUACCAA	3863	TTTGGTAG GGCTAGCTACAACGA GCAGTGGT	20984
3449	AACUGACA G CGGUGUU	3864	AACAGCCG GGCTAGCTACAACGA TGTCAGTT	20985
3452	UGACAGCG G CUGUUGGU	3865	ACCAACAG GGCTAGCTACAACGA CGCTGTCA	20986
3455	CAGCGGCU G UUGGUUUG	3866	CATACCAA GGCTAGCTACAACGA AGCCGCTG	20987
3459	GGCUGUUG G UAUGGUU	3867	ATACCATTA GGCTAGCTACAACGA CAACAGCC	20988
3464	UUGGUUUG G UAUGGAGA	3868	TCTCCATA GGCTAGCTACAACGA CATACCAA	20989
3505	AGACCCUC G UGCAGUCA	3869	TGACTGCA GGCTAGCTACAACGA GAGGGTCT	20990
3507	ACCCUCGU G CAGUCACA	3870	TGTGACTG GGCTAGCTACAACGA ACGAGGGT	20991
3510	CUCGUGCA G UCACAAGU	3871	ACTTGTGA GGCTAGCTACAACGA TGCACGAG	20992
3517	AGUCACAA G UGAAUGCU	3872	AGCATTCA GGCTAGCTACAACGA TTGTGACT	20993
3523	AAGUGAAU G CUUAUAAU	3873	ATTATAAG GGCTAGCTACAACGA ATTCACTT	20994
3532	CUUAUAAU G CUGAUUUG	3874	CATATCAG GGCTAGCTACAACGA ATTATAAG	20995
3555	CCUUUUAU G UUGGGCCU	3875	AGGCCCAA GGCTAGCTACAACGA TGAAGAGG	20996
3560	UCAGUUGG G CCUUCUGG	3876	CCAGAAGG GGCTAGCTACAACGA CCAACTGA	20997
3568	GCCUUCUG G UCGUGUUC	3877	GAACACGA GGCTAGCTACAACGA CAGAAGGC	20998
3571	UUCUGGUC G UGUUCUUG	3878	CAAGAACA GGCTAGCTACAACGA GACCAGAA	20999
3573	CUGGUCGU G UUCUUGGC	3879	GCCAAGAA GGCTAGCTACAACGA ACGACCAG	21000
3580	UGUUCUUG G CCACCCAG	3880	CTGGGTGG GGCTAGCTACAACGA CAAGAACA	21001
3592	CCCAGGAG G UCCUUCGC	3881	GCGAAGGA GGCTAGCTACAACGA CTCCTGGG	21002
3599	GGUCCUUC G CAAGAGGU	3882	ACCTCTTG GGCTAGCTACAACGA GAAGGACC	21003
3606	CGCAAGAG G UGGACAGC	3883	GCTGTCCA GGCTAGCTACAACGA CTCTTCCG	21004
3613	GGUGGACA G CCAAGAUC	3884	GATCTTGG GGCTAGCTACAACGA TGTCCACC	21005
3623	CAAGAUCA G CAUGCCAG	3885	CTGGCATG GGCTAGCTACAACGA TGATCTTG	21006
3627	AUCAGCAU G CCAGCUAU	3886	ATAGCTGG GGCTAGCTACAACGA ATGCTGAT	21007
3631	GCAUGCCA G CUUAACUG	3887	CAGTATAG GGCTAGCTACAACGA TGGCATGC	21008
3643	UACUGAUU G CUCUGCUA	3888	TAGCAGAG GGCTAGCTACAACGA AATCAGTA	21009
3648	AUUGUCU G CUAGUCCU	3889	AGGACTAG GGCTAGCTACAACGA AGAGCAAT	21010
3652	CUCUGCUA G UCCUGGUG	3890	CACCAGGA GGCTAGCTACAACGA TAGCAGAG	21011
3658	UAGUCCUG G UGUUUGGG	3891	CCCAAACA GGCTAGCTACAACGA CAGGACTA	21012

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3660	GUCCUGGU G UUUGGGG	3892	CCCCAAA GGCTAGCTACAACGA ACCAGGAC	21013
3668	GUUUGGGG G CAUUAUU	3893	AAGTAATG GGCTAGCTACAACGA CCCCAAAC	21014
3685	ACACUGAU G UGUUACGC	3894	GGCTAACA GGCTAGCTACAACGA ATCAGTGT	21015
3687	ACUGAUGU G UUACGCUA	3895	TAGCGTAA GGCTAGCTACAACGA ACATCAGT	21016
3692	UGUGUUAC G CUAUGUCA	3896	TGACATAG GGCTAGCTACAACGA GTAACACA	21017
3697	UACGCUAU G UCAUCUUG	3897	CAAGATGA GGCTAGCTACAACGA ATAGCGTA	21018
3706	UCAUCUUG G UGGGGGCA	3898	TGCCCCCA GGCTAGCTACAACGA CAAGATGA	21019
3712	UGGUGGGG G CAGCUUUC	3899	GAAAGCTG GGCTAGCTACAACGA CCCCAACA	21020
3715	UGGGGGCA G CUUUCGCA	3900	TGCGAAAG GGCTAGCTACAACGA TGCCCCCA	21021
3721	CAGCUUUC G CAGAAUCU	3901	AGATTCTG GGCTAGCTACAACGA GAAAGCTG	21022
3745	GAGGAGAC G UGUUACAC	3902	GTGTACCA GGCTAGCTACAACGA GTCTCTCT	21023
3748	GAGACGUG G UACACUUG	3903	CAAGTGTA GGCTAGCTACAACGA CACGTCTC	21024
3757	UACACUUG G CGCUCAUG	3904	CATGAGCG GGCTAGCTACAACGA CAAGTGTA	21025
3759	CACUUGGC G CUCUUGGC	3905	GGCATGAG GGCTAGCTACAACGA GCCAAGTG	21026
3766	CGCUCAUG G CGACCUUC	3906	GAAGGTCG GGCTAGCTACAACGA CATGAGCG	21027
3787	UACAACCA G UGUUUAUG	3907	CATAAACA GGCTAGCTACAACGA TGGTTGTA	21028
3789	CAACCAAG G UUUUAUGU	3908	ACCATAAA GGCTAGCTACAACGA ACTGGTTG	21029
3796	UGUUUAUG G UGGCAUCG	3909	CGATGCCA GGCTAGCTACAACGA CATAAACA	21030
3799	UUUUAUGG G CAUCGUUU	3910	AAACGATG GGCTAGCTACAACGA CACCATAA	21031
3804	GUGGCAUC G UUUCUCAA	3911	TTGAGAAA GGCTAGCTACAACGA GATGCCAC	21032
3814	UUUCUCAA G CGAGAUGG	3912	CCATCTCG GGCTAGCTACAACGA TTTGAGAA	21033
3843	AACAUUUU G UUGAUGUU	3913	AACATCAA GGCTAGCTACAACGA AAAATGTT	21034
3849	UUGUUGAU G UUGGCGGC	3914	GCCGCCAA GGCTAGCTACAACGA ATCAACAA	21035
3853	UGAUGUUG G CGGCGUUG	3915	AACAGCCG GGCTAGCTACAACGA CAACATCA	21036
3856	UGUUGGCG G CUGUUUUC	3916	GAAAACAG GGCTAGCTACAACGA CGCCAACA	21037
3859	UGGCGGCU G UUUCUUUU	3917	AAAGAAAA GGCTAGCTACAACGA AGCCGCCA	21038
3874	UUCAAAUG G CUUAUCAC	3918	GTGATAAG GGCTAGCTACAACGA CATTTGAA	21039
3886	AUCACGAU G CCCGCCAA	3919	TTGGCGGG GGCTAGCTACAACGA ATCGTGAT	21040
3890	CGAUGCCC G CCAAUUC	3920	GAATTTGG GGCTAGCTACAACGA GGGCATCG	21041
3900	CAAAUUCU G CUCUGGGA	3921	TCCAGAG GGCTAGCTACAACGA AGAATTTG	21042
3919	UCCCUGAU G UGUUGAAU	3922	ATTCAACA GGCTAGCTACAACGA ATCAGGGA	21043
3921	CCUGAUGU G UUGAAUUC	3923	GAATTCAG GGCTAGCTACAACGA ACATCAGG	21044
3934	AUUCACUG G CGGUAGCU	3924	AGCTACCG GGCTAGCTACAACGA CAGTGAAT	21045
3937	CACUGGCG G UAGCUUGG	3925	CCAAGCTA GGCTAGCTACAACGA CGCCAGTG	21046
3940	UGGCGGUA G CUUGGAUG	3926	CATCCAAG GGCTAGCTACAACGA TACCGCCA	21047
3958	UACUGAGA G CCAUAACA	3927	TGTTATGG GGCTAGCTACAACGA TCTCAGTA	21048
3985	CAUAAUAC G UGUUGUUG	3928	AACAACCA GGCTAGCTACAACGA GTTTGATG	21049
3988	CAAACGUG G UUGUCCG	3929	CGGAACAA GGCTAGCTACAACGA CACGTTTG	21050
3991	ACGUGGUU G UUCGCGUG	3930	CAGCGGAA GGCTAGCTACAACGA AACCACGT	21051
3996	GUUGUUCG G CUGCUAGC	3931	GCTAGCAG GGCTAGCTACAACGA GGAACAAC	21052
3999	GUUCCGCU G CUAGCCCU	3932	AGGGCTAG GGCTAGCTACAACGA AGCGGAAC	21053
4003	CGCUGCUA G CCCUGCUA	3933	TAGCAGGG GGCTAGCTACAACGA TAGCAGCG	21054
4008	CUAGCCCU G CUAACACC	3934	GGTGTTAG GGCTAGCTACAACGA AGGGCTAG	21055
4020	ACACCCGG G CUGAGAUG	3935	CATCTCAG GGCTAGCTACAACGA CCGGGTGT	21056
4028	GCUGAGAU G CUUGAAUC	3936	GATTCAG GGCTAGCTACAACGA ATCTCAGC	21057
4042	AUCUGGAU G UGUACAGG	3937	CCTGTACA GGCTAGCTACAACGA ATCCAGAT	21058
4044	CUGGAUGU G UACAGGAU	3938	ATCCTGTA GGCTAGCTACAACGA ACATCCAG	21059
4056	AGGAUACU G CUGUUGAU	3939	ATCAACAG GGCTAGCTACAACGA AGTATCCT	21060
4059	AUACUGCU G UUGAUGGU	3940	ACCATCAA GGCTAGCTACAACGA AGCAGTAT	21061
4066	UGUUGAUG G UCGAAUA	3941	TATTCCGA GGCTAGCTACAACGA CATCAACA	21062
4076	CGGAAUAG G CAGCUUGA	3942	TCAAGCTG GGCTAGCTACAACGA CTATTCCG	21063
4079	AAUAGGCA G CUUGAUCA	3943	TGATCAAG GGCTAGCTACAACGA TGCCATT	21064
4100	GAGAGGGA G UGCAGCUG	3944	CAGCTGCA GGCTAGCTACAACGA TCCTCTTC	21065
4102	AGAGGAGU G CAGCUGCA	3945	TGCAGCTG GGCTAGCTACAACGA ACTCTCT	21066
4105	GGAGUGCA G CUGCAAAA	3946	TTTTCGAG GGCTAGCTACAACGA TGCACTCC	21067
4108	GUGCAGCU G CAAAAAG	3947	CTTTTTCG GGCTAGCTACAACGA AGCTGCAC	21068
4123	AGAAAGGA G CAAGUCUG	3948	CAGACTTG GGCTAGCTACAACGA TCCTTTCT	21069
4127	AGGAGCAA G UCUGCUAU	3949	ATAGCAGA GGCTAGCTACAACGA TTGCTCCT	21070
4131	GCAAGUCU G CUAUGCUU	3950	AAGCATAG GGCTAGCTACAACGA AGACTTGC	21071
4136	UCUGCUAU G CUUGGCUC	3951	GAGCCAAG GGCTAGCTACAACGA ATAGCAGA	21072
4141	UAGUCUUG G CUCUAGCC	3952	GGCTAGAG GGCTAGCTACAACGA CAAGCATA	21073
4147	UGGCUCUA G CCUCAACA	3953	TGTTGAGG GGCTAGCTACAACGA TAGAGCCA	21074

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4180	UGAUCCUU G CUGCUGGA	3954	TCCAGCAG GGCTAGCTACAACGA AAGGATCA	21075
4183	UCCUUGCU G CUGGACUG	3955	CAGTCCAG GGCTAGCTACAACGA AGCAAGGA	21076
4195	GACUGAUU G CAUGUGAU	3956	ATCACATG GGCTAGCTACAACGA AATCAGTC	21077
4199	GAUUGCAU G UGAUCCA	3957	TGGGATCA GGCTAGCTACAACGA ATGCAATC	21078
4211	UCCCAACC G UAAACCG	3958	CGCGTTTA GGCTAGCTACAACGA GGTGCGGA	21079
4217	CCGUAAAC G CGGAUGGC	3959	GCCATCCG GGCTAGCTACAACGA GTTTACGG	21080
4224	CGCGGAUG G CCCGCAAC	3960	GTTGCGGG GGCTAGCTACAACGA CATCCGCG	21081
4228	GAUGGCCG G CAACUGAA	3961	TTCA GTTG GGCTAGCTACAACGA GGGCCATC	21082
4237	CAACUGAA G UGAUGACA	3962	TGTCATCA GGCTAGCTACAACGA TTCAGTTG	21083
4246	UGAUGACA G CUGUCGGC	3963	GCCGACAG GGCTAGCTACAACGA TGTCATCA	21084
4249	UGACAGCU G UCGGCCUA	3964	TAGGCCGA GGCTAGCTACAACGA AGCTGTCA	21085
4253	AGCUGUCG G CUUAAUGU	3965	ACATTAGG GGCTAGCTACAACGA CGACAGCT	21086
4260	GGCCUAAU G UUUGCCAU	3966	ATGGCAAA GGCTAGCTACAACGA ATTAGGCC	21087
4264	UAAUGUUU G CCAUCGUC	3967	GACGATGG GGCTAGCTACAACGA AAACATTA	21088
4270	UUGCCAUC G UCGGAGGG	3968	CCCTCCGA GGCTAGCTACAACGA GATGGCAA	21089
4278	GUCGGAGG G CUGGCAGA	3969	TCTGCCAG GGCTAGCTACAACGA CCTCCGAC	21090
4282	GAGGGCUG G CAGAGCUU	3970	AAGCTCTG GGCTAGCTACAACGA CAGCCCTC	21091
4287	CUGGCAGA G CUUGACAU	3971	ATGTCAAG GGCTAGCTACAACGA TCTGCCAG	21092
4306	ACUCCAUG G CCAUCCA	3972	TGGAATGG GGCTAGCTACAACGA CATGGAGT	21093
4324	UGACUAUC G CGGGGCUC	3973	GAGCCCGG GGCTAGCTACAACGA GATAGTCA	21094
4329	AUCGCGGG G CUCAUGUU	3974	AACATGAG GGCTAGCTACAACGA CCCGCGAT	21095
4335	GGGCUCAU G UUUGCUGC	3975	GCAGCAA GGCTAGCTACAACGA ATGAGCCC	21096
4339	UCAUGUUU G CUGCUUUC	3976	GAAAGCAG GGCTAGCTACAACGA AAACATGA	21097
4342	UGUUUGCU G CUUUCGUG	3977	CACGAAAG GGCTAGCTACAACGA AGCAAACA	21098
4348	CUGCUUUC G UGAUUUCU	3978	AGAAATCA GGCTAGCTACAACGA GAAAGCAG	21099
4374	ACAGAUAU G UGGAUUGA	3979	TCAATCCA GGCTAGCTACAACGA ATATCTGT	21100
4390	AGAGAACG G CGGACAUU	3980	AATGTCCG GGCTAGCTACAACGA CGTCTCT	21101
4409	CUGGGAAA G UGAUGCAG	3981	CTGCATCA GGCTAGCTACAACGA TTTCCCAG	21102
4414	AAAGUGAU G CAGAAAUU	3982	AATTTCTG GGCTAGCTACAACGA ATCACTTT	21103
4427	AAUUAACG G CUCGAGCG	3983	CGCTCGAG GGCTAGCTACAACGA CTGTAATT	21104
4433	AGGCUCGA G CGAAAGAG	3984	CTCTTTG GGCTAGCTACAACGA TCGAGCCT	21105
4441	GCGAAAGA G UUGAUGUG	3985	CACATCAA GGCTAGCTACAACGA TCTTTCGC	21106
4447	GAGUUGAU G UGCGGCUU	3986	AAGCCGCA GGCTAGCTACAACGA ATCAACTC	21107
4449	GUUGAUGU G CGGCUUGA	3987	TCAAGCCG GGCTAGCTACAACGA ACATCAAC	21108
4452	GAUGUGCG G CUUGAUGA	3988	TCATCAAG GGCTAGCTACAACGA CGCACATC	21109
4476	AACUCCA G CUCAUGAA	3989	TTCATGAG GGCTAGCTACAACGA TGGAAGTT	21110
4495	AUCCAGGA G CACCUUGG	3990	CCAAGGTG GGCTAGCTACAACGA TCCTGGAT	21111
4515	AUAUGGAU G CUCAGAAU	3991	ATTCTGAG GGCTAGCTACAACGA ATCCATAT	21112
4525	UCAGAAUG G UCUGUCUC	3992	GAGACAGA GGCTAGCTACAACGA CATTTGTA	21113
4529	AAUGGUCU G UCUCGCGA	3993	TCGCGAGA GGCTAGCTACAACGA AGACCATT	21114
4534	UCUGUCUC G CGAUUAGU	3994	ACTAATCG GGCTAGCTACAACGA GAGACAGA	21115
4541	CGCGAUUA G UGCGUACA	3995	TGTACGCA GGCTAGCTACAACGA TAATCGCG	21116
4543	CGAUUAGU G CGUACACC	3996	GGTGTACG GGCTAGCTACAACGA ACTAATCG	21117
4545	AUUGUGGC G UACACCCC	3997	GGGGTGTA GGCTAGCTACAACGA GACTAAT	21118
4558	CCCCUGG G CAAUCUUG	3998	CAAGATTG GGCTAGCTACAACGA CCAGGGGG	21119
4566	GCAAUCUU G CCCUCAGU	3999	ACTGAGGG GGCTAGCTACAACGA AAGATTGC	21120
4573	UGCCCUCA G UAGUUGGA	4000	TCCAACTA GGCTAGCTACAACGA TGAGGGCA	21121
4576	CCUCAGUA G UUGGAUUU	4001	AAATCCAA GGCTAGCTACAACGA TACTGAGG	21122
4616	GAGAGGAG G CGUGUUGU	4002	ACAACACG GGCTAGCTACAACGA CTCCTCTC	21123
4618	GAGGAGGC G UGUUGUGG	4003	CCACAACA GGCTAGCTACAACGA GCCTCCTC	21124
4620	GGAGGCGU G UUGUGGGA	4004	TCCCACAA GGCTAGCTACAACGA ACGCTCC	21125
4623	GGCGUGUU G UGGGACAC	4005	GTGTCCCA GGCTAGCTACAACGA AACACGCC	21126
4647	CCAAAGGA G UACAAAAA	4006	TTTTTGTA GGCTAGCTACAACGA TCCTTTGG	21127
4673	GACCACCG G CGUCUACA	4007	TGTAGAGG GGCTAGCTACAACGA CGGTGGTC	21128
4675	CCACCGGC G UCUCAGG	4008	CCTGTAGA GGCTAGCTACAACGA GCCGTGG	21129
4694	CAUGACUC G UGGGCGUC	4009	GCAGCCCA GGCTAGCTACAACGA GAGTCATG	21130
4698	ACUCGUGG G CUGCUCGG	4010	CCGAGCAG GGCTAGCTACAACGA CCACGAGT	21131
4701	CGUGGGCU G CUCGGCAG	4011	CTGCCGAG GGCTAGCTACAACGA AGCCACAG	21132
4706	GCUGCUCG G CAGUUAUC	4012	GATAACTG GGCTAGCTACAACGA CGAGCAGC	21133
4709	GCUCGGCA G UUAUCAAG	4013	CTTGATAA GGCTAGCTACAACGA TGCCGAGC	21134
4717	GUUAUCAA G CAGGAGCG	4014	CGCTCCTG GGCTAGCTACAACGA TTGATAAC	21135
4723	AAGCAGGA G CGGCGUG	4015	CACGCCCG GGCTAGCTACAACGA TCCTGCTT	21136

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4727	AGGAGCGG G CGUGAUGG	4016	CCATCACG GGCTAGCTACAACGA CCGCTCCT	21137
4729	GAGCGGGC G UGAUGGUU	4017	AACCATCA GGCTAGCTACAACGA GCCCGCTC	21138
4735	GCGUGAUG G UUGAAGGU	4018	ACCTTCAA GGCTAGCTACAACGA CATCACGC	21139
4742	GGUUGAAG G UGUUUUCC	4019	GGAAAACA GGCTAGCTACAACGA CTTCAACC	21140
4744	UGAAGGU G UUUUCCAC	4020	GTGGA AAA GGCTAGCTACAACGA ACCTTCAA	21141
4761	ACCCUUG G CAUACAAC	4021	GTTGTATG GGCTAGCTACAACGA CAAAGGGT	21142
4777	CAAAAGGA G CCGCUUUG	4022	CAAAGCGG GGCTAGCTACAACGA TCCTTTTG	21143
4780	AAGGAGCC G CUUUGAUG	4023	CATCAAAG GGCTAGCTACAACGA GGCTCCTT	21144
4790	UUUGAUGA G CGGAGAGG	4024	CCTCTCCG GGCTAGCTACAACGA TCATCAAA	21145
4799	CGGAGAGG G CCGCCUGG	4025	CCAGGCGG GGCTAGCTACAACGA CCTCTCCG	21146
4802	AGAGGGCC G CCUGGACC	4026	GGTCCAGG GGCTAGCTACAACGA GGCCCTCT	21147
4820	AUACUGGG G CAGUGUCA	4027	TGACACTG GGCTAGCTACAACGA CCCAGTAT	21148
4823	CUGGGGCA G UGUCAAGG	4028	CCTTGACA GGCTAGCTACAACGA TGCCCCAG	21149
4825	GGGGCAGU G UCAAGGAG	4029	CTCCTTGA GGCTAGCTACAACGA ACTGCCCC	21150
4844	UCGACUUU G UUACGGAG	4030	CTCCGTAA GGCTAGCTACAACGA AAAGTCGA	21151
4866	UGGAAAUU G CAGCACAA	4031	TTGTGCTG GGCTAGCTACAACGA AATTCCA	21152
4869	AAAUUGCA G CACAAGUG	4032	CACCTGTG GGCTAGCTACAACGA TGCAATTT	21153
4875	CAGCACAA G UGGAACGG	4033	CCGTTCCA GGCTAGCTACAACGA TTGTGCTG	21154
4884	UGGAACGG G CAGGAUGA	4034	TCATCTCG GGCTAGCTACAACGA CCGTTCCA	21155
4894	AGGAUGAG G UGCAGAUG	4035	CATCTGCA GGCTAGCTACAACGA CTCATCCT	21156
4896	GAUGAGGU G CAGAUGAU	4036	ATCATCTG GGCTAGCTACAACGA ACCTCATC	21157
4906	AGAUGAUU G UGGUGGAA	4037	TTCCACCA GGCTAGCTACAACGA AATCATCT	21158
4909	UGAUUGUG G UGGAACCU	4038	AGGTTCCT GGCTAGCTACAACGA CACAATCA	21159
4919	GGAAACCUG G CAAGAACG	4039	CGTTCTTG GGCTAGCTACAACGA CAGGTTCC	21160
4927	GCAAGAAC G UUAAGAAC	4040	GTTCTTAA GGCTAGCTACAACGA GTTCTTGC	21161
4936	UUAAGAAC G UCCAGACG	4041	CGTCTGGA GGCTAGCTACAACGA GTTCTTAA	21162
4954	AACCAGGG G UGUUCAA	4042	TTTGAACA GGCTAGCTACAACGA CCCTGGTT	21163
4956	CCAGGGGU G UUCAAAC	4043	GTTTTGAA GGCTAGCTACAACGA ACCCCTGG	21164
4984	AAAUCCGG G CCGUGACU	4044	AGTCACGG GGCTAGCTACAACGA CCCGATTT	21165
4987	UCGGGGCC G UGACUUUG	4045	CAAAGTCA GGCTAGCTACAACGA GGCCCCGA	21166
5018	AACAUCAG G CUCACCAA	4046	TTGGTGAG GGCTAGCTACAACGA CTGATGTT	21167
5029	CACCAUAU G UGGACAAA	4047	TTTGTCCA GGCTAGCTACAACGA TATTGGTG	21168
5042	CAAAACG G UGAUGUGA	4048	TCACATCA GGCTAGCTACAACGA CGTTTTTG	21169
5047	ACGGUGAU G UGAUUGGG	4049	CCCAATCA GGCTAGCTACAACGA ATCACCCT	21170
5055	GUGAUUGG G CUUUUUGG	4050	CCATAAAG GGCTAGCTACAACGA CCAATCAC	21171
5063	GUUUUUG G CAUUGGAG	4051	CTCCATTG GGCTAGCTACAACGA CATAAGC	21172
5071	GCAAUGGA G UCAUAAUG	4052	CATTATGA GGCTAGCTACAACGA TCCATTGC	21173
5079	GUCAUAAU G CCCAACGG	4053	CCGTGGG GGCTAGCTACAACGA ATTATGAC	21174
5087	GCCCCACG G CUCAUACA	4054	TGTATGAG GGCTAGCTACAACGA CGTTGGGC	21175
5099	AUACAUAA G CGCGAUAG	4055	CTATCGCG GGCTAGCTACAACGA TTATGTAT	21176
5101	ACAUAGC G CGAUAGUG	4056	CACATCG GGCTAGCTACAACGA GCTTATGT	21177
5107	GCGCAUAU G UGCAGGGU	4057	ACCCTGCA GGCTAGCTACAACGA TATCGCGC	21178
5109	GCGAUAGU G CAGGGUGA	4058	TCACCCTG GGCTAGCTACAACGA ACTATCGC	21179
5114	AGUGCAGG G UGAAAGGA	4059	TCCTTTCA GGCTAGCTACAACGA CCTGCACT	21180
5130	AUGGAUGA G CCAAUCCC	4060	GGGATTGG GGCTAGCTACAACGA TCATCCAT	21181
5140	CAAUCCCA G CCGGAUUC	4061	GAATCCGG GGCTAGCTACAACGA TGGGATTG	21182
5160	CCUGAGAU G CUGAGGAA	4062	TTCCTCAG GGCTAGCTACAACGA ATCTCAGG	21183
5182	AGAUCACU G UACUGGAU	4063	ATCCAGTA GGCTAGCTACAACGA AGTGATCT	21184
5201	CAAUCCCG G CGCCGUUA	4064	TACCGCGG GGCTAGCTACAACGA CGGGATGG	21185
5203	AUCCCGGC G CCGUAAA	4065	TTTACCGG GGCTAGCTACAACGA GCCGGGAT	21186
5207	CGGCGCCG G UAAACAA	4066	TTGTTTFA GGCTAGCTACAACGA CGGCGCCG	21187
5226	AGGAUUCU G CCACAGAU	4067	ATCTGTGG GGCTAGCTACAACGA AGAATCCT	21188
5245	UCAAGAG G CCAUAAAC	4068	GTTTATGG GGCTAGCTACAACGA CTCCTTTGA	21189
5269	UGAGAACA G CCGUGCUA	4069	TAGCACGG GGCTAGCTACAACGA TGTTCTCA	21190
5272	GAACAGCC G UGCUAGCA	4070	TGCTAGCA GGCTAGCTACAACGA GGCTTTTC	21191
5274	ACAGCCGU G CUAGCACC	4071	GGTGCTAG GGCTAGCTACAACGA ACGGCTGT	21192
5278	CCGUGCUA G CACCAACC	4072	GTTTGGTG GGCTAGCTACAACGA TAGCACGG	21193
5290	CAACCAGG G UUGUGGCU	4073	AGCCACAA GGCTAGCTACAACGA CCTGGTTG	21194
5293	CCAGGGUU G UGGUGGCU	4074	AGCAGCCA GGCTAGCTACAACGA AACCTTGG	21195
5296	GGGUUGUG G CUGCUGAG	4075	CTCAGCAG GGCTAGCTACAACGA CACAACCC	21196
5299	UUGUGGCU G CUGAGAUG	4076	CATCTCAG GGCTAGCTACAACGA AGCCACAA	21197
5308	CUGAGAUG G CUGAAGCA	4077	TGCTTCAG GGCTAGCTACAACGA CATCTCAG	21198

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5314	UGGCUGAA G CACUGAGA	4078	TCTCAGTG GGCTAGCTACAACGA TTCAGCCA	21199
5328	AGAGGACU G CCCAUCCG	4079	CGGATGGG GGCTAGCTACAACGA AGTCCTCT	21200
5337	CCCAUCCG G UACCAGAC	4080	GTCTGGTA GGCTAGCTACAACGA CGGATGGG	21201
5350	AGACAUCC G CAGUGCCC	4081	GGGCACTG GGCTAGCTACAACGA GGATGTCT	21202
5353	CAUCCGCA G UGCCCAGA	4082	TCTGGGCA GGCTAGCTACAACGA TCGGGATG	21203
5355	UCCGCAGU G CCCAGAGA	4083	TCTCTGGG GGCTAGCTACAACGA ACTGCGGA	21204
5383	AUGAGAUU G UUGAUGUC	4084	GACATCAA GGCTAGCTACAACGA AATCTCAT	21205
5389	UUGUUGAU G UCAUGUGU	4085	ACACATGA GGCTAGCTACAACGA ATCAACAA	21206
5394	GAUGUCAU G UGUCAUGC	4086	GCATGACA GGCTAGCTACAACGA ATGACATC	21207
5396	UGUCAUGU G UCAUGCUA	4087	TAGCATGA GGCTAGCTACAACGA ACATGACA	21208
5401	UGUGUCAU G CUACCCUC	4088	GAGGGTAG GGCTAGCTACAACGA ATGACACA	21209
5418	ACCCACAG G CUGAUGUC	4089	GACATCAG GGCTAGCTACAACGA CTGTGGGT	21210
5424	AGGCUGAU G UCUCUCA	4090	TGAGGAGA GGCTAGCTACAACGA ATCAGCCT	21211
5437	CUCACAGG G UGCCGAAC	4091	GTTCCGGC GGCTAGCTACAACGA CCTGTGAG	21212
5439	CACAGGGU G CCGAACUA	4092	TAGTTCGG GGCTAGCTACAACGA ACCCTGTG	21213
5454	UACAACCU G UUCGUGAU	4093	ATCAGGAA GGCTAGCTACAACGA AGGTTGTA	21214
5458	ACCUGUUC G UGAUGGAU	4094	ATCCATCA GGCTAGCTACAACGA GAACAGGT	21215
5470	UGGAUGAG G CUCAUUUC	4095	GAAATGAG GGCTAGCTACAACGA CTCATCCA	21216
5488	CCGACCCA G CUAGCAUU	4096	AATGCTAG GGCTAGCTACAACGA TGGTTCGG	21217
5492	CCCAGCUA G CAUUGCAG	4097	CTGCAATG GGCTAGCTACAACGA TAGCTGGG	21218
5497	CUAGCAUU G CAGCAAGA	4098	TCTTGCTG GGCTAGCTACAACGA AATGCTAG	21219
5500	GCAUUGCA G CAAGAGGU	4099	ACCTCTTG GGCTAGCTACAACGA TGCAATGC	21220
5507	AGCAAGAG G UUACAUUU	4100	AAATGTAA GGCTAGCTACAACGA CTCCTGCT	21221
5524	CCACAAG G UCGAGCUA	4101	TAGCTCGA GGCTAGCTACAACGA CTTGTGGG	21222
5529	AAGGUCGA G CUAGGGGA	4102	TCCCTTAG GGCTAGCTACAACGA TCACCTTT	21223
5539	UAGGGGAG G CGGCGGCA	4103	TGCCGCCG GGCTAGCTACAACGA CTCCCTTA	21224
5542	GGGAGGCG G CGGCAUUA	4104	TATGCGCG GGCTAGCTACAACGA CGCCTCCC	21225
5545	AGGCGGCG G CAAUAUUC	4105	GAATATTG GGCTAGCTACAACGA CGCCGCCT	21226
5560	UCAUGACA G CCACCCCA	4106	TGGGGTGG GGCTAGCTACAACGA TGTCATGA	21227
5573	CCCACCAG G CACUUCAG	4107	CTGAAGTG GGCTAGCTACAACGA CTGGTGGG	21228
5595	UOCCACAG G UCCAUAUC	4108	GAATGGGA GGCTAGCTACAACGA TCTGGGAA	21229
5641	CGGAUCGA G CUUGGAAC	4109	GTTCCAAG GGCTAGCTACAACGA TCGATCCG	21230
5689	GGAAGACG G UUUGGUUU	4110	AAACCAAA GGCTAGCTACAACGA CGTCTTCC	21231
5694	ACGGUUGG G UUUGUGCC	4111	GGCACAAA GGCTAGCTACAACGA CAAACCGT	21232
5698	UUUGGUUU G UGCCUAGU	4112	ACTAGGCA GGCTAGCTACAACGA AAACCAAA	21233
5700	UGGUUUUG G CCUAGUGU	4113	ACACTAGG GGCTAGCTACAACGA ACAAACCA	21234
5705	UGUGCCUA G UGUCAAGA	4114	TCTTGACA GGCTAGCTACAACGA TAGGCACA	21235
5707	UGCCUAGU G UCAAGAUG	4115	CATCTTGA GGCTAGCTACAACGA ACTAGGCA	21236
5728	AUGAGAUU G CCCUUGC	4116	GCAAAGGG GGCTAGCTACAACGA AATCTCAT	21237
5735	UGCCCUUU G CCUACAAC	4117	GTTGTAGG GGCTAGCTACAACGA AAAGGGCA	21238
5744	CCUACAAC G UGCUGGAA	4118	TTCCAGCA GGCTAGCTACAACGA GTTGTAGG	21239
5746	UACAACGU G CUGGAAAG	4119	CTTTCCAG GGCTAGCTACAACGA ACGTTGTA	21240
5758	GAAAGAAA G UAGUCCAA	4120	TTGGAATA GGCTAGCTACAACGA TTCTTTTC	21241
5761	AGAAAGUA G UCCAUAUG	4121	CAATTGGA GGCTAGCTACAACGA TACTTTCT	21242
5778	AACAGAAA G UCGUACGA	4122	TCGTACGA GGCTAGCTACAACGA TTTCTGTT	21243
5781	AGAAAGUC G UACGAGAC	4123	GTCTGGTA GGCTAGCTACAACGA GACTTTCT	21244
5793	GAGACGGA G UACCCAAA	4124	TTTGGGTA GGCTAGCTACAACGA TCCGTCTC	21245
5804	CCCAAAAU G UAAGAACG	4125	CGTTCTTA GGCTAGCTACAACGA ATTTTGGG	21246
5827	GGGACUUU G UUAUCACA	4126	TGTGATAA GGCTAGCTACAACGA AAAGTCCC	21247
5857	AAAUAGGG G CUAACUUC	4127	GAAGTTAG GGCTAGCTACAACGA CCCATTTT	21248
5869	ACUUCAAG G CGAGCAGG	4128	CCTGCTCG GGCTAGCTACAACGA CTTGAAGT	21249
5873	CAAGGCGA G CAGGGUGA	4129	TCACCCTG GGCTAGCTACAACGA TCGCCTTG	21250
5878	CGAGCAGG G UGAUUGAC	4130	GTCAATCA GGCTAGCTACAACGA CCGTCTCG	21251
5888	GAUUGACA G CCGGAAGA	4131	TCTTCGGG GGCTAGCTACAACGA TGTCAATC	21252
5897	CCGGAAGA G UGUGAAAC	4132	GTTTCACA GGCTAGCTACAACGA TCTTCGGG	21253
5899	GGAAGAGU G UGAAACCA	4133	TGGTTTCA GGCTAGCTACAACGA ACTCTTCC	21254
5935	AAGGGAGA G UGAUCCUG	4134	CAGGATCA GGCTAGCTACAACGA TCTCCCTT	21255
5956	AACCAUCU G CAGUGACA	4135	TGTCAGTG GGCTAGCTACAACGA AGATGGTT	21256
5959	CAUCUGCA G UGACAGCA	4136	TGCTGTCA GGCTAGCTACAACGA TGCAGATG	21257
5965	CAGUGACA G CAGCUAGU	4137	ACTAGCTG GGCTAGCTACAACGA TGTCAGTG	21258
5968	UGACAGCA G CUAGUGCC	4138	GGCACTAG GGCTAGCTACAACGA TGCTGTCA	21259
5972	AGCAGCUA G UGCCGCC	4139	GGGCGGCA GGCTAGCTACAACGA TAGCTGCT	21260

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5974	CAGCUAGU G CCGCCAG	4140	CTGGGCGG GGCTAGCTACAACGA ACTAGCTG	21261
5977	CUAGUGCC G CCCAGAGA	4141	TCTCTGGG GGCTAGCTACAACGA GGCCTAG	21262
5987	CCAGAGAC G UGGACGUA	4142	TACGTCCA GGCTAGCTACAACGA GTCTCTGG	21263
5993	ACGUGGAC G UAUCCGUA	4143	TACCGATA GGCTAGCTACAACGA GTCCACGT	21264
5999	ACGUUUCG G UAGAAUUC	4144	GATTTCTA GGCTAGCTACAACGA CGATACGT	21265
6009	AGAAUUC G UCGCAAGU	4145	ACTTGC GA GGCTAGCTACAACGA GGATTCT	21266
6012	AAUCCGUC G CAAGUUG	4146	CCAACCTG GGCTAGCTACAACGA GACGGATT	21267
6016	CGUCGCAA G UUGGUGAU	4147	ATCACCAA GGCTAGCTACAACGA TTGCGACG	21268
6020	GCAAGUUG G UGAUGAGU	4148	ACTCATCA GGCTAGCTACAACGA CAACTTGC	21269
6027	GGUGAUGA G UACUGUUA	4149	TAACAGTA GGCTAGCTACAACGA TCATCACC	21270
6032	UGAGUACU G UUAUGGGG	4150	CCCCATAA GGCTAGCTACAACGA AGTACTCA	21271
6042	UAUGGGGG G CACACGAA	4151	TTGCTGTG GGCTAGCTACAACGA CCCCCATA	21272
6070	CGAACUUC G CCCAUUGG	4152	CCAATGGG GGCTAGCTACAACGA GAAGTTCG	21273
6085	GGACUGAG G CACGAUUC	4153	GATTCGTG GGCTAGCTACAACGA CTCAGTCC	21274
6096	CGAAUCAU G CUGGACAA	4154	TTGTCCAG GGCTAGCTACAACGA ATGATTCC	21275
6114	AUCAACAU G CCAAACGG	4155	CCGTTTGG GGCTAGCTACAACGA ATGTTGAT	21276
6130	GACUGAUC G CUCAAUUC	4156	GAATTGAG GGCTAGCTACAACGA GATCAGTC	21277
6150	CAACCAGA G CGUGAGAA	4157	TTCTCACG GGCTAGCTACAACGA TCTGGTTG	21278
6152	ACCAGAGC G UGAGAAGG	4158	CCTTCTCA GGCTAGCTACAACGA GCTCTGGT	21279
6160	GUGAGAAG G UAUUACC	4159	GGTATATA GGCTAGCTACAACGA CTCTCAC	21280
6186	GAAUACCG G CUCAGAGG	4160	CCTCTGAG GGCTAGCTACAACGA CGGTATTC	21281
6222	CUGGAACU G UUGAGGAC	4161	GTCCCTCA GGCTAGCTACAACGA AGTTCCAG	21282
6232	UGAGGACU G CAGAUCUG	4162	CAGATCTG GGCTAGCTACAACGA AGTCTCA	21283
6240	GGAGAUCU G CCAGUUUG	4163	CAAACCTG GGCTAGCTACAACGA AGATCTGC	21284
6244	AUCUGCCA G UUUGGCUG	4164	CAGCCAAA GGCTAGCTACAACGA TGGCAGAT	21285
6249	CCAGUUUG G CUGGCUUA	4165	TAAGCCAG GGCTAGCTACAACGA CAACTGG	21286
6253	UUUGGCUG G CUUACAAG	4166	CTTGTAAG GGCTAGCTACAACGA CAGCCAAA	21287
6262	CUUACAAG G UUGCAGCG	4167	CGCTGCAA GGCTAGCTACAACGA CTTGTAAG	21288
6265	ACAAGGUU G CAGCGGCU	4168	AGCCGCTG GGCTAGCTACAACGA AACCTTGT	21289
6268	AGGUUGCA G CGGCUGGA	4169	TCCAGCCG GGCTAGCTACAACGA TGCAACCT	21290
6271	UUGCAGCG G CUGGAGUG	4170	CACCTCCG GGCTAGCTACAACGA CGCTGCAA	21291
6277	CGGCUGGA G UGUCAUAC	4171	GTATGACA GGCTAGCTACAACGA TCCAGCCG	21292
6279	GCUGGAGU G UCAUACCA	4172	TGGTATGA GGCTAGCTACAACGA ACTCCAGC	21293
6297	GACCGGAG G UGGUGCUU	4173	AAGCACCA GGCTAGCTACAACGA CTCGGGTC	21294
6300	CGGAGGUG G UGCUUUGA	4174	TCAAAGCA GGCTAGCTACAACGA CACCTCCG	21295
6302	GAGGUGGU G CUUUGAUG	4175	CATCAAAG GGCTAGCTACAACGA ACCACCTC	21296
6311	CUUUGAUG G UCCUAGGA	4176	TCCTAGGA GGCTAGCTACAACGA CATCAAAG	21297
6349	ACAACGAA G UGGAAGUC	4177	GACTTCCA GGCTAGCTACAACGA TTCGTTGT	21298
6355	AAGUGGAA G UCAUCACG	4178	CGTGATGA GGCTAGCTACAACGA TTCACATT	21299
6366	AUCACGAA G CUUGGUGA	4179	TCACCAAG GGCTAGCTACAACGA TTCGTGAT	21300
6371	GAAGCUUG G UGAAAGGA	4180	TCCTTTCA GGCTAGCTACAACGA CAAGCTTC	21301
6390	AUUCUGAG G CGGCGCUG	4181	CAGCGCGG GGCTAGCTACAACGA CTCAGAAT	21302
6393	CUGAGGCC G CGCUGGAU	4182	ATCCAGCG GGCTAGCTACAACGA GGCTCAG	21303
6395	GAGGCCGC G CUGGAUUG	4183	CAATCCAG GGCTAGCTACAACGA GCGGCCTC	21304
6406	GGAUUGAC G CCAGGGUG	4184	CACCCTGG GGCTAGCTACAACGA GTCAATCC	21305
6412	AGGCCAGG G UGUACUCG	4185	CGAGTACA GGCTAGCTACAACGA CCTGGCGT	21306
6414	GCCAGGGU G UACUCGGA	4186	TCCGAGTA GGCTAGCTACAACGA ACCCTGGC	21307
6430	AUCACCAG G CACUAAAG	4187	CTTTAGTG GGCTAGCTACAACGA CTGGTGAT	21308
6439	CACUAAAG G CGUUCAAG	4188	CTTGAACG GGCTAGCTACAACGA CTTTAGTG	21309
6441	CUAAAGGC G UUCAAGGA	4189	TCCTTGAA GGCTAGCTACAACGA GCCTTTAG	21310
6454	AGGACUUC G CCUCGGGA	4190	TCCCGAGG GGCTAGCTACAACGA GAAGTCCT	21311
6467	GGGAAAC G UUCUCAGA	4191	TCTGAGAA GGCTAGCTACAACGA GTTTTCCC	21312
6480	CAGAUAGG G CUCAUUGA	4192	TCAATGAG GGCTAGCTACAACGA CCTATCTG	21313
6490	UCAUUGAG G UUCUGGGA	4193	TCCAGAA GGCTAGCTACAACGA CTCAATGA	21314
6504	GGAAAGAU G CCUGAGCA	4194	TGCTCAGG GGCTAGCTACAACGA ATCTTTCC	21315
6510	AUGCCUGA G CACUUCAU	4195	ATGAAGTG GGCTAGCTACAACGA TCAGGCAT	21316
6535	CAUGGGAA G CACUUGAC	4196	GTCAAGTG GGCTAGCTACAACGA TTCCCATG	21317
6549	GACACCAU G UACGUUGU	4197	ACAACGTA GGCTAGCTACAACGA ATGGTGTC	21318
6553	CCAUGUAC G UUGUGGCC	4198	GGCCACAA GGCTAGCTACAACGA GTACATGG	21319
6556	UGUACGUU G UGGCCACT	4199	AGTGGCCA GGCTAGCTACAACGA AACGTACA	21320
6559	ACGUUGUG G CCACUGCA	4200	TGCAGTGG GGCTAGCTACAACGA CACAACGT	21321
6565	UGGCCACU G CAGAGAAA	4201	TTTCTCTG GGCTAGCTACAACGA AGTGGCCA	21322

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6583	GAGGAAGA G CUCACAGA	4202	TCTGTGAG GGCTAGCTACAACGA TCTTCCTC	21323
6595	ACAGAAUG G CCCUGGAG	4203	CTCCAGGG GGCTAGCTACAACGA CATTCCTGT	21324
6609	GAGGAACU G CCAGAUGC	4204	GCATCTGG GGCTAGCTACAACGA AGTTCCTC	21325
6616	UGCCAGAU G CUCUUCAG	4205	CTGAAGAG GGCTAGCTACAACGA ATCTGGCA	21326
6631	AGACAAU G CCUUGAUU	4206	AATCAAGG GGCTAGCTACAACGA AATTGTCT	21327
6640	CCUUGAUU G CCUUAUUG	4207	CAATAAGG GGCTAGCTACAACGA AATCAAGG	21328
6650	CUUAUUGA G UGUGAUGA	4208	TCATCACA GGCTAGCTACAACGA TCAATAAG	21329
6652	UAUUGAGU G UGAUGACC	4209	GGTCATCA GGCTAGCTACAACGA ACTCAATA	21330
6667	CCUUGGGA G UAUUCUUC	4210	GAAGAATA GGCTAGCTACAACGA TCCCATGG	21331
6684	CUCCUCAU G CAGCGGAA	4211	TTCCGCTG GGCTAGCTACAACGA ATGAGGAG	21332
6687	CUCAUGCA G CGGAAGGG	4212	CCCTTCCG GGCTAGCTACAACGA TGCATGAG	21333
6695	GCGGAAGG G CAUUGGAA	4213	TTCCAATG GGCTAGCTACAACGA CCTTCCGC	21334
6710	AAAGAUAG G UUUGGGAG	4214	CTCCCAA GGCTAGCTACAACGA CTATCTTT	21335
6719	UUUGGGAG G CGCUGUCU	4215	AGACAGCG GGCTAGCTACAACGA CTCCCAA	21336
6721	UGGGAGGC G CUGUCUUG	4216	CAAGACAG GGCTAGCTACAACGA GCCTCCCA	21337
6724	GAGGCGCU G UCUUGGGA	4217	TCCCAAGA GGCTAGCTACAACGA AGCGCCTC	21338
6733	UCUUGGGA G UCGCGACC	4218	GGTCGCGA GGCTAGCTACAACGA TCCCAAGA	21339
6736	UGGGAGUC G CGACCUUU	4219	AAAGGTCTG GGCTAGCTACAACGA GACTCCCA	21340
6749	CUUUUUCU G UUGGAUGG	4220	CCATCCAA GGCTAGCTACAACGA AGAAAAAG	21341
6757	GUUGGAUG G CUGAAGUU	4221	AACTTCAG GGCTAGCTACAACGA CATCCAAC	21342
6763	UGGCUGAA G UUCGAGGA	4222	TCCTGGAA GGCTAGCTACAACGA TTCAGCCA	21343
6781	CGAAGAUC G CCGGAAUG	4223	CATTCGGG GGCTAGCTACAACGA GATCTTCG	21344
6789	GCCGGAU G UUGCUGCU	4224	AGCAGCAA GGCTAGCTACAACGA ATTCCGGC	21345
6792	GGAAUGUU G CUGCUCUC	4225	GAGAGCAG GGCTAGCTACAACGA AACATTCC	21346
6795	AUGUUGCU G CUCUCCCU	4226	AGGGAGAG GGCTAGCTACAACGA AGCAACAT	21347
6817	UGAUGAUU G UGCUAAUU	4227	AATTAGCA GGCTAGCTACAACGA AATCATCA	21348
6819	AUGAUUGU G CUAUUCU	4228	GGAATTAG GGCTAGCTACAACGA ACAATCAT	21349
6831	AUUCUGA G CCAGAGAA	4229	TTCTCTGG GGCTAGCTACAACGA TCAGGAAT	21350
6840	CCAGAGAA G CAACGUUC	4230	GAACGTG GGCTAGCTACAACGA TTCTCTGG	21351
6845	GAAGCAAC G UUCGCAGA	4231	TCTGCGAA GGCTAGCTACAACGA GTTGCTTC	21352
6849	CAACGUUC G CAGACAGA	4232	TCTGTCTG GGCTAGCTACAACGA GAACGTTG	21353
6864	GACAACCA G CUAGCCGU	4233	ACGGCTAG GGCTAGCTACAACGA TGTTGTTC	21354
6868	ACCAGCUA G CCGUGUUC	4234	GAACACGG GGCTAGCTACAACGA TAGCTGGT	21355
6871	AGCUAGCC G UGUUCCUG	4235	CAGGAACA GGCTAGCTACAACGA GGCTAGCT	21356
6873	CUAGCCGU G UUCUGAU	4236	ATCAGGAA GGCTAGCTACAACGA ACGGCTAG	21357
6884	CCUGAUUU G UGUCAUGA	4237	TCATGACA GGCTAGCTACAACGA AAATCAGG	21358
6886	UGAUUUGU G UCAUGACC	4238	GGTCATGA GGCTAGCTACAACGA ACAAATCA	21359
6898	UGACCCUU G UGAGCGCA	4239	TGCGCTCA GGCTAGCTACAACGA AAGGGTCA	21360
6902	CCUUGUGA G CGCAGUGG	4240	CCACTGCG GGCTAGCTACAACGA TCACAAGG	21361
6904	UUGUGAGC G CAGUGGCA	4241	TGCCACTG GGCTAGCTACAACGA GCTCACAA	21362
6907	UGAGCGCA G UGGCAGCC	4242	GGCTGCCA GGCTAGCTACAACGA TGCGCTCA	21363
6910	GCGCAGUG G CAGCCAAC	4243	GTTGGCTG GGCTAGCTACAACGA CACTGCGC	21364
6913	CAGUGGCA G CCAACGAG	4244	CTCGTTGG GGCTAGCTACAACGA TGCCACTG	21365
6926	CGAGAUUG G UUGGCUAG	4245	CTAGCCAA GGCTAGCTACAACGA CCATCTCG	21366
6930	AUGGGUUG G CUAGAUAA	4246	TTATCTAG GGCTAGCTACAACGA CAACCCAT	21367
6947	GACCAAGA G UGACAUAA	4247	TTATGTCA GGCTAGCTACAACGA TCTTGGTC	21368
6956	UGACAUAA G CAGUUUGU	4248	ACAAACTG GGCTAGCTACAACGA TTATGTCA	21369
6959	CAUAAGCA G UUUGUUUG	4249	CAAAACAA GGCTAGCTACAACGA TGCTTATG	21370
6963	AGCAGUUU G UUUGGGCA	4250	TGCCCCAA GGCTAGCTACAACGA AAATGCT	21371
6969	UUGUUUGG G CAAAGAAU	4251	ATTCTTTG GGCTAGCTACAACGA CCAAACAA	21372
6982	GAAUUGAG G UCAAGGAG	4252	CTCCTTGA GGCTAGCTACAACGA CTCAATTC	21373
6998	GAAUUUCA G CAUGGGAG	4253	CTCCCATG GGCTAGCTACAACGA TGAATTC	21374
7008	AUGGGAGA G UUUCUUUU	4254	AAAAGAAA GGCTAGCTACAACGA TCTCCCAT	21375
7026	GACUUGAG G CCGGCAAC	4255	GTTGCCGG GGCTAGCTACAACGA CTCAGTTC	21376
7030	UGAGGCCG G CAACAGCC	4256	GGCTGTTG GGCTAGCTACAACGA CGGCCTCA	21377
7036	CGGCAACA G CCUGGUCA	4257	TGACCAGG GGCTAGCTACAACGA TGTGCGG	21378
7041	ACAGCCUG G UCACUGUA	4258	TACAGTGA GGCTAGCTACAACGA CAGGCTGT	21379
7047	UGGUCACU G UACGUGU	4259	ACAGCGTA GGCTAGCTACAACGA AGTGACCA	21380
7051	CACUGUAC G CUGUGACA	4260	TGTCACAG GGCTAGCTACAACGA GTACAGTG	21381
7054	UGUACGCU G UGACAACA	4261	TGTTGTCA GGCTAGCTACAACGA AGCGTACA	21382
7063	UGACAACA G CGGUCCUC	4262	GAGGACCG GGCTAGCTACAACGA TGTGTGTC	21383
7066	CAACAGCG G UCCUCACU	4263	AGTGAGGA GGCTAGCTACAACGA CGCTGTTG	21384

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7080	ACUCCACU G CUAAGCA	4264	TGCTTTAG GGCTAGCTACAACGA AGTGGAGT	21385
7086	CUGCUAAA G CAUUUGAU	4265	ATCAAATG GGCTAGCTACAACGA TTTAGCAG	21386
7098	UGAUCAC G UCAGAUUA	4266	TAATCTGA GGCTAGCTACAACGA GTGATCAA	21387
7135	CAAUAAAC G UUCAGGCA	4267	TGCCTGAA GGCTAGCTACAACGA GTTTATTG	21388
7141	ACGUUCAG G CAAGUGCA	4268	TGCACTTG GGCTAGCTACAACGA CTGAACGT	21389
7145	UCAGGCAA G UGCACUUA	4269	ATAGTGCA GGCTAGCTACAACGA TTGCCTGA	21390
7147	AGGCAAGU G CACUAUUC	4270	GAATAGTG GGCTAGCTACAACGA ACTTGCCT	21391
7162	UCACACUC G CGCGAGGC	4271	GCCTCGCG GGCTAGCTACAACGA GAGTGTGA	21392
7164	ACACUCGC G CGAGGCUU	4272	AAGCCTCG GGCTAGCTACAACGA GCGAGTGT	21393
7169	CGCGCGAG G CUUCCCCU	4273	AGGGGAAG GGCTAGCTACAACGA CTCGCGCG	21394
7180	UCCCCUUC G UCGAUGUU	4274	AACATCGA GGCTAGCTACAACGA GAAGGGGA	21395
7186	UCGUCGAU G UUGGAGUG	4275	CACTCCAA GGCTAGCTACAACGA ATCGACGA	21396
7192	AUGUUGGA G UGUCGGCU	4276	AGCCGACA GGCTAGCTACAACGA TCCAACAT	21397
7194	GUUGGAGU G UCGGCUCU	4277	AGAGCCGA GGCTAGCTACAACGA ACTCCAAC	21398
7198	GAGUGUCG G CUCUCCUG	4278	CAGGAGAG GGCTAGCTACAACGA CGACACTC	21399
7206	GCUCUCU G CUAGCAGC	4279	GCTGCTAG GGCTAGCTACAACGA AGGAGAGC	21400
7210	UCCUGCUA G CAGCCGGA	4280	TCCGGCTG GGCTAGCTACAACGA TAGCAGGA	21401
7213	UGCUAGCA G CCGGAUGC	4281	GCATCCGG GGCTAGCTACAACGA TGCTAGCA	21402
7220	AGCCGGAU G CUGGGGAC	4282	GTCCCCAG GGCTAGCTACAACGA ATCCGGCT	21403
7231	GGGGACAA G UCACCUC	4283	GAGGGTGA GGCTAGCTACAACGA TTGTCCCC	21404
7243	CCCUCACC G UUACGGUA	4284	TACCGTAA GGCTAGCTACAACGA GGTGAGGG	21405
7249	CCGUUACG G UAACAGCG	4285	CGCTGTTA GGCTAGCTACAACGA CGTAACGG	21406
7255	CGGUAAAC G CGGCAACA	4286	TGTTGCCG GGCTAGCTACAACGA TGTTACCG	21407
7258	UAACAGCG G CAACACUC	4287	GAGTGTTG GGCTAGCTACAACGA CGCTGTTA	21408
7274	CCUUUUUU G CCACUAUG	4288	CATAGTGG GGCTAGCTACAACGA AAAAAAGG	21409
7282	GCCACUAU G CCUACAUG	4289	CATGTAGG GGCTAGCTACAACGA ATAGTGGC	21410
7291	CCUACAUG G UUCCCGGU	4290	ACCGGGA GGCTAGCTACAACGA CATGTAGG	21411
7298	GGUUCCCG G UUGGCAAG	4291	CTTGCCAA GGCTAGCTACAACGA CGGGAACC	21412
7302	CCCGGUUG G CAAGCUGA	4292	TCAGCTTG GGCTAGCTACAACGA CAACCGGG	21413
7306	GUUGGCAA G CUGAGGCA	4293	TGCCTCAG GGCTAGCTACAACGA TTGCCAAC	21414
7312	AAGCUGAG G CAUUGCGC	4294	GCGCATTT GGCTAGCTACAACGA CTCAGCTT	21415
7317	GAGGCAAU G CGCUCAGC	4295	GCTGAGCG GGCTAGCTACAACGA ATTGCCCTC	21416
7319	GGCAAUGC G CUCAGCCC	4296	GGGCTGAG GGCTAGCTACAACGA GCATTGCC	21417
7324	UGCGCUCA G CCCAGCGG	4297	CCGCTGGG GGCTAGCTACAACGA TGAGCGCA	21418
7329	UCAGCCCA G CGGCGGAC	4298	GTCCGCCG GGCTAGCTACAACGA TGGGCTGA	21419
7332	GCCCAGCG G CGGACAGC	4299	GCTGTCCG GGCTAGCTACAACGA CGCTGGGC	21420
7339	GGCGGACA G CGGCCGGA	4300	TCCGGCCG GGCTAGCTACAACGA TGTCCGCC	21421
7342	GGACAGCG G CCGGAUUC	4301	GATTCCGG GGCTAGCTACAACGA CGCTGTCC	21422
7360	UGAAGAAC G CUGUAGUG	4302	CACTACAG GGCTAGCTACAACGA GTTCTTCA	21423
7363	AGAACGCU G UAGUGGAU	4303	ATCCACTA GGCTAGCTACAACGA AGCGTTCT	21424
7366	ACGCUGUA G UGGAUGGC	4304	GCCATCCA GGCTAGCTACAACGA TACAGCGT	21425
7373	AGUGGAUG G CAUCGUGG	4305	CCACGATG GGCTAGCTACAACGA CATCCACT	21426
7378	AUGGCAUC G UGGCCACG	4306	CGTGCCCA GGCTAGCTACAACGA GATGCCAT	21427
7381	GCAUCGUG G CCACGGAC	4307	GTCCGTGG GGCTAGCTACAACGA CACGATGC	21428
7390	CCACGGAC G UCCCAGAA	4308	TTCTGGGA GGCTAGCTACAACGA GTCCGTGG	21429
7404	GAAUUGA G CGCACCAC	4309	GTGGTGCG GGCTAGCTACAACGA TCTAATTC	21430
7406	AUUAGAGC G CACCACAC	4310	GTGTGGTG GGCTAGCTACAACGA GCTCTAAT	21431
7422	CCCAUCAU G CAGAAGAA	4311	TTCTTCTG GGCTAGCTACAACGA ATGATGGG	21432
7432	AGAAGAAA G UUGGACAG	4312	CTGTCCAA GGCTAGCTACAACGA TTTCTTCT	21433
7446	CAGAUCAU G CUGAUCUU	4313	AAGATCAG GGCTAGCTACAACGA ATGATCTG	21434
7456	UGAUCUUG G UGUCUCUA	4314	TAGAGACA GGCTAGCTACAACGA CAAGATCA	21435
7458	AUCUUGGU G UCUCUAGC	4315	GCTAGAGA GGCTAGCTACAACGA ACCAAGAT	21436
7465	UGUCUCUA G CUGCAGUA	4316	TACTGCAG GGCTAGCTACAACGA TAGAGACA	21437
7468	CUCUAGCU G CAGUAGUA	4317	TACTACTG GGCTAGCTACAACGA AGCTAGAG	21438
7471	UAGCUGCA G UAGUAGUG	4318	CACTACTA GGCTAGCTACAACGA TGCAGCTA	21439
7474	CUGCAGUA G UAGUGAAC	4319	GTTCACTA GGCTAGCTACAACGA TACTGCAG	21440
7477	CAGUAGUA G UGAACCCG	4320	CGGGTTCA GGCTAGCTACAACGA TACTACTG	21441
7485	GUGAACCC G UCUGUGAA	4321	TTCACAGA GGCTAGCTACAACGA GGGTTTAC	21442
7489	ACCCGUCU G UGAAGACA	4322	TGTCTTCA GGCTAGCTACAACGA AGACGGGT	21443
7498	UGAAGACA G UACGAGAA	4323	TTCTCGTA GGCTAGCTACAACGA TGTCTTCA	21444
7507	UACGAGAA G CCGGAUUA	4324	AATTCCGG GGCTAGCTACAACGA TTCTCGTA	21445
7525	UGAUCACG G CCGCAGCG	4325	CGTCCGGG GGCTAGCTACAACGA CGTGATCA	21446

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7528	UCACGGCC G CAGCGGUG	4326	CACCGCTG GGCTAGCTACAACGA GGCCGTGA	21447
7531	CGGCCGCA G CGGUGACG	4327	CGTCACCG GGCTAGCTACAACGA TGCGGCCG	21448
7534	CCGCAGCG G UGACGCUU	4328	AAGCGTCA GGCTAGCTACAACGA CGCTGCCG	21449
7539	GCGGUGAC G CUUUGGGA	4329	TCCCAAAG GGCTAGCTACAACGA GTCACCGC	21450
7555	AGAAUGGA G CAAGCUCU	4330	AGAGCTTG GGCTAGCTACAACGA TCCATTCT	21451
7559	UGGAGCAA G CUCUGUUU	4331	AAACAGAG GGCTAGCTACAACGA TTGCTCCA	21452
7564	CAAGCUCU G UUUGGAAC	4332	GTTCCAAA GGCTAGCTACAACGA AGAGCTTG	21453
7573	UUUGGAAC G CAACAACU	4333	AGTTGTTG GGCTAGCTACAACGA GTTCCAAA	21454
7582	CAACAACU G CCAUCGGA	4334	TCCGATGG GGCTAGCTACAACGA AGTTGTTG	21455
7595	CGGACUCU G CCACAUCA	4335	TGATGTGG GGCTAGCTACAACGA AGAGTCCG	21456
7605	CACAUCAU G CGUGGGGG	4336	CCCCACG GGCTAGCTACAACGA ATGATGTG	21457
7607	CAUCAUGC G UGGGGGUU	4337	AACCCCCA GGCTAGCTACAACGA GCATGATG	21458
7613	GCGUGGGG G UUGGUUGU	4338	ACAACCAA GGCTAGCTACAACGA CCCCACGC	21459
7617	GGGGGUUG G UUGUCAUG	4339	CATGACAA GGCTAGCTACAACGA CAACCCCC	21460
7620	GGUUGGUU G UCAUGUCU	4340	AGACATGA GGCTAGCTACAACGA AACCAACC	21461
7625	GUUGUCAU G UCUAUCCA	4341	TGGATAGA GGCTAGCTACAACGA ATGACAAC	21462
7682	AAAAAGAG G UGGGGCAA	4342	TTGCCCAA GGCTAGCTACAACGA CTCTTTTT	21463
7687	GAGGUGGG G CAAAAGGA	4343	TCCTTTTG GGCTAGCTACAACGA CCCACCTC	21464
7697	AAAAGGAC G CACCUUGG	4344	CCAAGGTG GGCTAGCTACAACGA GTCCTTTT	21465
7711	UGGGAGAG G UUUGGAAA	4345	TTTCCAAA GGCTAGCTACAACGA CTCTCCCA	21466
7749	AAAGAAGA G UUCACUAG	4346	CTAGTGAA GGCTAGCTACAACGA TCTTCTTT	21467
7758	UUCACUAG G UACCGCAA	4347	TTGCGGTA GGCTAGCTACAACGA CTAGTGAA	21468
7763	UAGGUACC G CAAAGAGG	4348	CCTCTTTG GGCTAGCTACAACGA GGTACATA	21469
7771	GCAAAGAG G CCAUCAUC	4349	GATGATGG GGCTAGCTACAACGA CTCTTTGC	21470
7783	UCAUCGAA G UCGAUCGC	4350	GCGATCGA GGCTAGCTACAACGA TTCGATGA	21471
7790	AGUCGAUC G CUCAGCGG	4351	CCGCTGAG GGCTAGCTACAACGA GATCGACT	21472
7795	AUCGCUCA G CGGCAAAA	4352	TTTTGCCG GGCTAGCTACAACGA TGAGCGAT	21473
7798	GCUCAGCG G CAAAACAC	4353	GTGTTTTG GGCTAGCTACAACGA CGCTGAGC	21474
7807	CAAAACAC G CCAGGAAA	4354	TTTCTGGG GGCTAGCTACAACGA GTGTTTTG	21475
7820	GAAAGAAG G CAUUGUCA	4355	TGACATTG GGCTAGCTACAACGA CTCTTTTC	21476
7825	AAGGCAAU G UCACUGGA	4356	TCCAGTGA GGCTAGCTACAACGA ATTGCCCT	21477
7836	ACUGGAGG G CAUCCAGU	4357	ACTGATG GGCTAGCTACAACGA CCTCCAGT	21478
7843	GGCAUCCA G UCUCUAGG	4358	CCTAGAGA GGCTAGCTACAACGA TGGATGCC	21479
7853	CUCUAGGG G CACAGCAA	4359	TTGCTGTG GGCTAGCTACAACGA CCCTAGAG	21480
7858	GGGGCACA G CAAAACUG	4360	CAGTTTTG GGCTAGCTACAACGA TGTGCCCC	21481
7872	CUGAGAUG G CUGGUCGA	4361	TCGACCAG GGCTAGCTACAACGA CATCTCAG	21482
7876	GAUGGCTG G UCGAACGG	4362	CCGTTGCA GGCTAGCTACAACGA CAGCCATC	21483
7887	GAACGGAG G UUUCUCGA	4363	TCGAGAAA GGCTAGCTACAACGA CTCGGTTC	21484
7900	UCGAACCG G UCGGAAAA	4364	TTTTCCGA GGCTAGCTACAACGA CGGTTCTG	21485
7909	UCGGAAAA G UGAUUGAC	4365	GTCAATCA GGCTAGCTACAACGA TTTCCGA	21486
7925	CCUUGGAU G UGGAAGAG	4366	CTCTTCCA GGCTAGCTACAACGA ATCCAAGG	21487
7934	UGGAAGAG G CGGUUGGU	4367	ACCAACCG GGCTAGCTACAACGA CTCTTCCA	21488
7937	AAGAGGCG G UUGGUGUU	4368	AACACCAA GGCTAGCTACAACGA CGCCTCTT	21489
7941	GGCGGUUG G UGUUACUA	4369	TAGTAACA GGCTAGCTACAACGA CAACCGCC	21490
7943	CGGUUGGU G UUACUUAU	4370	TATAGTAA GGCTAGCTACAACGA ACCAACCG	21491
7954	ACUAUAUG G CAACCCAA	4371	TTGGGTTG GGCTAGCTACAACGA CATATAGT	21492
7969	AAAAAAGA G UCCAAGAA	4372	TTCTTGGA GGCTAGCTACAACGA TCTTTTTT	21493
7978	UCCAAGAA G UCAGAGGG	4373	CCCTCTGA GGCTAGCTACAACGA TTCTTGGA	21494
7986	GUCAGAGG G UACACAAA	4374	TTTGTGTA GGCTAGCTACAACGA CCTCTGAC	21495
7997	CACAAAGG G CGGUCCCG	4375	CGGGACCG GGCTAGCTACAACGA CCTTTGTG	21496
8000	AAAGGGCG G UCCCGGAC	4376	GTCCGGGA GGCTAGCTACAACGA CGCCCTTT	21497
8016	CAUGAAGA G CCCAACU	4377	AGTTGGGG GGCTAGCTACAACGA TCTTCATG	21498
8026	CCCAACUA G UGCAAGU	4378	ACTTTTGA GGCTAGCTACAACGA TAGTTGGG	21499
8028	CAACUAGU G CAAAGUUA	4379	TAACTTTG GGCTAGCTACAACGA ACTAGTTG	21500
8033	AGUGCAAA G UUAUGGAU	4380	ATCCATAA GGCTAGCTACAACGA TTGCACT	21501
8050	GGAACAUU G UCACCAUG	4381	CATGGTGA GGCTAGCTACAACGA AATGTTCC	21502
8063	CAUGAAGA G UGGAGUGG	4382	CCACTCCA GGCTAGCTACAACGA TCTTCATG	21503
8068	AGAGUGGA G UGGAUGUG	4383	CACATCCA GGCTAGCTACAACGA TCCACTCT	21504
8074	GAGUGGAU G UGUUCUAC	4384	GTAGAACA GGCTAGCTACAACGA ATCCACTC	21505
8076	GUGGAUGU G UUCUACAG	4385	CTGTAGAA GGCTAGCTACAACGA ACATCCAC	21506
8094	CCUUCUGA G UGUUGUGA	4386	TCACAACA GGCTAGCTACAACGA TCAGAAGG	21507
8096	UUCUGAGU G UUGUGACA	4387	TGTCAACA GGCTAGCTACAACGA ACTCAGAA	21508

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8099	UGAGUGUU G UGACACCC	4388	GGGTGTCA GGCTAGCTACAACGA AACACTCA	21509
8114	CCUCCUUU G UGACAUCG	4389	CGATGTCA GGCTAGCTACAACGA AAAGGAGG	21510
8127	AUCGGAGA G UCCUCGUC	4390	GACGAGGA GGCTAGCTACAACGA TCTCCGAT	21511
8133	GAGUCCUC G UCAAGUGC	4391	GCACTTGA GGCTAGCTACAACGA GAGGACTC	21512
8138	CUCGUCAA G UGCUGAGG	4392	CCTCAGCA GGCTAGCTACAACGA TTGACGAG	21513
8140	CGUCAAGU G CUGAGGUU	4393	AACCTCAG GGCTAGCTACAACGA ACTTGACG	21514
8146	GUGCUGAG G UUGAAGAG	4394	CTCTTCAA GGCTAGCTACAACGA CTCAGCAC	21515
8154	GUUGAAGA G CAUAGGAC	4395	GTCCTATG GGCTAGCTACAACGA TCTTCAAC	21516
8170	CGAUUCGG G UCCUUGAA	4396	TTCAAGGA GGCTAGCTACAACGA CCGAATCG	21517
8182	UUGAAAUG G UUGAGGAC	4397	GTCCTCAA GGCTAGCTACAACGA CATTTCAA	21518
8193	GAGGACUG G CUGCACCG	4398	CGGTGCAG GGCTAGCTACAACGA CAGTCCTC	21519
8196	GACUGGCU G CACCGAGG	4399	CCTCGGTG GGCTAGCTACAACGA AGCCAGTC	21520
8205	CACCGAGG G CCAAGGGA	4400	TCCCTTGG GGCTAGCTACAACGA CCTCGGTG	21521
8219	GGAAUUUU G CGUGAAGG	4401	CCTTCACG GGCTAGCTACAACGA AAAATTCC	21522
8221	AAUUUUGC G UGAAGGUG	4402	CACCTTCA GGCTAGCTACAACGA GCAAAATT	21523
8227	GCGUGAAG G UGCUCUGC	4403	GCAGAGCA GGCTAGCTACAACGA CTTACAGC	21524
8229	GUGAAGGU G CUCUGCCC	4404	GGGCAGAG GGCTAGCTACAACGA ACCTTCAC	21525
8234	GGUGCUCU G CCCCUACA	4405	TGTAGGGG GGCTAGCTACAACGA AGAGCACC	21526
8244	CCCUACAU G CCGAAAGU	4406	ACTTTCGG GGCTAGCTACAACGA ATGTAGGG	21527
8251	UGCCGAAA G UCAUAGAG	4407	CTCTATGA GGCTAGCTACAACGA TTTCGGCA	21528
8268	AAGAUGGA G CUGCUGCA	4408	TGGAGCAG GGCTAGCTACAACGA TCCATCTT	21529
8271	AUGGAGCU G CUCCAACG	4409	CGTTGGAG GGCTAGCTACAACGA AGTCCCAT	21530
8279	GCUCCAAC G CCGGUAUG	4410	CATACCGG GGCTAGCTACAACGA GTTGGAGC	21531
8283	CAACGCCG G UAUUGGGG	4411	CCCCATA GGCTAGCTACAACGA CGGCGTTG	21532
8299	GGGGACUG G UCAGAAAC	4412	GTTTCTGA GGCTAGCTACAACGA CAGTCCCC	21533
8328	AAUCCAC G CACGAGAU	4413	ATCTCGTG GGCTAGCTACAACGA GTGGAATT	21534
8337	CACGAGAU G UAUUGGGU	4414	ACCCAATA GGCTAGCTACAACGA ATCTCGTG	21535
8344	UGUAUUGG G UGAGUCGA	4415	TCGACTCA GGCTAGCTACAACGA CCAATACA	21536
8348	UUGGGUGA G UCGAGCUU	4416	AAGCTCGA GGCTAGCTACAACGA TCACCCAA	21537
8353	UGAGUCGA G CUUCAGGC	4417	GCCTGAAG GGCTAGCTACAACGA TCGACTCA	21538
8360	AGCUUCAG G CAAUGUGG	4418	CCACATTG GGCTAGCTACAACGA CTGAAGCT	21539
8365	CAGGCAAU G UGGUACAU	4419	ATGTACCA GGCTAGCTACAACGA ATTGCCTG	21540
8368	GCAUUGUG G UACAUAUA	4420	TGAATGTA GGCTAGCTACAACGA CACATTGC	21541
8377	UACAUAUA G UGAUAUUG	4421	CATATTCA GGCTAGCTACAACGA TGAATGTA	21542
8390	UAUGACCA G CCAGGUGC	4422	GCACCTGG GGCTAGCTACAACGA TGTCATA	21543
8395	CCAGCCAG G UGCUCCUA	4423	TAGGAGCA GGCTAGCTACAACGA CTGGCTGG	21544
8397	AGCCAGGU G CUCCUAGG	4424	CCTAGGAG GGCTAGCTACAACGA ACCTGGCT	21545
8452	AGGAAGAU G UAAACUUG	4425	CAAGTTTA GGCTAGCTACAACGA ATCTTCCT	21546
8465	CUUGGGAA G UGGAACCA	4426	TGGTTCCA GGCTAGCTACAACGA TTCCCAAG	21547
8476	GAACCAGG G CGGUGGGA	4427	TCCCACCG GGCTAGCTACAACGA CCTGGTTC	21548
8479	CCAGGGCG G UGGGAAAA	4428	TTTTCCCA GGCTAGCTACAACGA CGCCCTGG	21549
8493	AAACCCCU G CUCAACUC	4429	GAGTTGAG GGCTAGCTACAACGA AGGGGTTT	21550
8510	AGACACCA G UAAAAUCA	4430	TGATTTTA GGCTAGCTACAACGA TGTGTCT	21551
8541	CGACUCAG G CGUGAGUA	4431	TACTCAGG GGCTAGCTACAACGA CTGAGTCG	21552
8543	ACUCAGGC G UGAGUACA	4432	TGTACTCA GGCTAGCTACAACGA GCCTGAGT	21553
8547	AGGCGUGA G UACAGUUC	4433	GAACGTGA GGCTAGCTACAACGA TCACGCCT	21554
8552	UGAGUACA G UUCGACGU	4434	ACGTCGAA GGCTAGCTACAACGA TGACTCA	21555
8559	AGUUCGAC G UGGACCA	4435	TGGTGCCA GGCTAGCTACAACGA GTCGAACT	21556
8562	UCGACGUG G CACCACGA	4436	TCGTGGTG GGCTAGCTACAACGA CACGTCGA	21557
8606	CUAUCACG G CAGUUAUG	4437	CATAACTG GGCTAGCTACAACGA CGTGATAG	21558
8609	UCACGGCA G UUAUGAUG	4438	CATCATAA GGCTAGCTACAACGA TGCCGTGA	21559
8617	GUUAUGAU G UGAAGCCC	4439	GGGCTTCA GGCTAGCTACAACGA ATCAT AAC	21560
8622	GAUGUGAA G CCCACAGG	4440	CCTGTGGG GGCTAGCTACAACGA TTCACATC	21561
8630	GCCCAACG G CUCCGCCA	4441	TGGCGGAG GGCTAGCTACAACGA CTGTGGGC	21562
8635	CAGGCUCC G CCAGUUCG	4442	CGAACTGG GGCTAGCTACAACGA GGAGCCTG	21563
8639	CUCCGCCA G UUCGUGG	4443	CCAGCGAA GGCTAGCTACAACGA TGGCGGAG	21564
8643	GCCAGUUC G CUGGUCAA	4444	TGACCAGG GGCTAGCTACAACGA GAACTGGC	21565
8647	GUUCGUG G UCAAUGGA	4445	TCCATTGA GGCTAGCTACAACGA CAGCGAAC	21566
8656	UCAUUGGA G UGGUCAGG	4446	CCTGACCA GGCTAGCTACAACGA TCCATTGA	21567
8659	AUGGAGUG G UCAGGCUC	4447	GAGCCTGA GGCTAGCTACAACGA CACTCCAT	21568
8664	GUGGUCAG G CUCCUCUC	4448	GAGAGGAG GGCTAGCTACAACGA CTGACCAC	21569
8698	UCACGAAU G UUACCACC	4449	GGTGGTAA GGCTAGCTACAACGA ATTCGTGA	21570

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8710	CCACCAUG G CCAUGACU	4450	AGTCATGG GGCTAGCTACAACGA CATGGTGG	21571
8736	CCCUCGG G CAGCAGCG	4451	CGCTGCTG GGCTAGCTACAACGA CCGAAGGG	21572
8739	UUCGGCA G CAGCGAGU	4452	ACTCGCTG GGCTAGCTACAACGA TGCCCGAA	21573
8742	GGGCAGCA G CGAGUGUU	4453	AACACTCG GGCTAGCTACAACGA TGCTGCC	21574
8746	AGCAGCGA G UGUUCAA	4454	TTTGAACA GGCTAGCTACAACGA TCGTGCT	21575
8748	CAGCGAGU G UUCAAGA	4455	TCTTTGAA GGCTAGCTACAACGA ACTCGCTG	21576
8761	AAGAGAAG G UGGACACG	4456	CGTGCCA GGCTAGCTACAACGA CTCTCTT	21577
8773	ACACGAAA G CUCCUGAA	4457	TTCAGGAG GGCTAGCTACAACGA TTTCTGT	21578
8784	CCUGAACG G CCAGAAGG	4458	CCTTCTGG GGCTAGCTACAACGA GGTTCAGG	21579
8794	CAGAAGGA G UGAAGUAC	4459	GTACTTCA GGCTAGCTACAACGA TCCTTCTG	21580
8799	GGAGUGAA G UACGUGCU	4460	AGCACGTA GGCTAGCTACAACGA TTCACTCC	21581
8803	UGAAGUAC G UGCUCAAU	4461	ATTGAGCA GGCTAGCTACAACGA GTACTTCA	21582
8805	AAGUACGU G CUCAAUGA	4462	TCATTGAG GGCTAGCTACAACGA ACGTACTT	21583
8826	ACCAACUG G UUGUGGGC	4463	GCCACAA GGCTAGCTACAACGA CAGTTGGT	21584
8829	AACUGGUU G UGGGCGUU	4464	AACGCCCA GGCTAGCTACAACGA AACCGTT	21585
8833	GGUUGUGG G CGUUUUUG	4465	CAAAAACG GGCTAGCTACAACGA CCACAACC	21586
8835	UUGUGGGC G UUUUUGGC	4466	GCCAAAA GGCTAGCTACAACGA GCCACAA	21587
8842	CGUUUUUG G CCAGAGAA	4467	TTCTCTGG GGCTAGCTACAACGA CAAAACG	21588
8855	AGAAAAC G UCCAGAA	4468	TTCTGGGA GGCTAGCTACAACGA GTTTTCT	21589
8865	CCCAGAAU G UGCUCUG	4469	CGAGAGCA GGCTAGCTACAACGA ATTCTGGG	21590
8867	CAGAAUGU G CUCUCGAG	4470	CTCGAGAG GGCTAGCTACAACGA ACATTCTG	21591
8893	UAAGAAAG G UCAACAGC	4471	GCTGTTGA GGCTAGCTACAACGA CTTTCTTA	21592
8900	GGUCAACA G CAAUGCAG	4472	CTGCTTGG GGCTAGCTACAACGA TGTTGACC	21593
8905	ACAGCAAU G CAGCUUUG	4473	CAAAGCTG GGCTAGCTACAACGA ATTGCTGT	21594
8908	GCA AUGCA G CUUUGGU	4474	ACCCAAAG GGCTAGCTACAACGA TGCATTGC	21595
8915	AGCUUUGG G UGCCAUGU	4475	ACATGGCA GGCTAGCTACAACGA CCAAAGCT	21596
8917	CUUUGGGU G CCAUGUUU	4476	AAACATGG GGCTAGCTACAACGA ACCCAAAG	21597
8922	GGUGCCAU G UUUGAAGA	4477	TCTTCAA GGCTAGCTACAACGA ATGGCACC	21598
8931	UUUGAAGA G CAGAAUCA	4478	TGATTCTG GGCTAGCTACAACGA TCTTCAA	21599
8948	AUGGAGGA G CGCCAGAG	4479	CTCTGCG GGCTAGCTACAACGA TCCTCCAT	21600
8950	GGAGGAGC G CCAGAGAA	4480	TTCTCTGG GGCTAGCTACAACGA GCTCCTCC	21601
8959	CCAGAGAA G CAGUUGAA	4481	TTCAACTG GGCTAGCTACAACGA TTCTCTGG	21602
8962	GAGAAGCA G UUGAAGAU	4482	ATCTTCAA GGCTAGCTACAACGA TGCTTCTC	21603
8989	GGGAGAGU G UGGAUGAG	4483	CTCATCCA GGCTAGCTACAACGA CATCTCCC	21604
9000	GAUGAGGA G CGCGAGGC	4484	GCCTCGCG GGCTAGCTACAACGA TCCTCATC	21605
9002	UGAGGAGC G CGAGGCAC	4485	GTGCTCG GGCTAGCTACAACGA GCTCCTCA	21606
9007	AGCGGAGG G CACAUCUG	4486	CAGATGTG GGCTAGCTACAACGA CTCGCGCT	21607
9015	GCACAUCU G CGGGGGGA	4487	TCCCCCG GGCTAGCTACAACGA AGATGTGC	21608
9026	GGGGGAU G UCACACUU	4488	AAGTGTGA GGCTAGCTACAACGA ATTCCCC	21609
9035	UCACACUU G CAUUUACA	4489	TGTAATG GGCTAGCTACAACGA AAGTGTGA	21610
9078	CCCGGAGA G UUCGAAA	4490	TTTCCGAA GGCTAGCTACAACGA TCTCCGGG	21611
9088	UCGGAAG G CCAAGGGA	4491	TCCCTTGG GGCTAGCTACAACGA CTTTCCGA	21612
9098	CAAGGGAA G CAGAGCCA	4492	TGGCTCTG GGCTAGCTACAACGA TTCCCTTG	21613
9103	GAAGCAGA G CCAUUUGG	4493	CCAAATGG GGCTAGCTACAACGA TCTGCTTC	21614
9111	GCCAUUUG G UUCAUGUG	4494	CACATGAA GGCTAGCTACAACGA CAAATGGC	21615
9117	UGGUUCAU G UGGCUCGG	4495	CCGAGCCA GGCTAGCTACAACGA ATGAACCA	21616
9120	UUCAUGUG G CUCGAGC	4496	GCTCCGAG GGCTAGCTACAACGA CACATGAA	21617
9127	GGCUCGGA G CUCGCUU	4497	AAAGCGAG GGCTAGCTACAACGA TCCGAGCC	21618
9131	CGGAGCUC G CUUUCUGG	4498	CCAGAAAG GGCTAGCTACAACGA GAGCTCCG	21619
9141	UUUCUGGA G UUCGAGGC	4499	GCCTCGAA GGCTAGCTACAACGA TCCAGAAA	21620
9148	AGUUCGAG G CUCUGGGU	4500	ACCCAGAG GGCTAGCTACAACGA CTCGAACT	21621
9155	GGCUCUGG G UUUUCUCA	4501	TGAGAAAA GGCTAGCTACAACGA CCAGAGCC	21622
9177	GACCAUG G CUUGGAAG	4502	CTTCCAAG GGCTAGCTACAACGA CAGTGGTC	21623
9203	AGGAGGAG G UGUCGAGG	4503	CCTCGACA GGCTAGCTACAACGA CTCCTCCT	21624
9205	GAGGAGGU G UCGAGGGC	4504	GCCCTCGA GGCTAGCTACAACGA ACCTCCTC	21625
9212	UGUCGAGG G CUUGGGCC	4505	GGCCCAAG GGCTAGCTACAACGA CCTCGACA	21626
9218	GGCUUGG G CCUCCAAA	4506	TTTGGAGG GGCTAGCTACAACGA CCAAGCCC	21627
9233	AAAACUGG G UUAUCC	4507	GGATGTAA GGCTAGCTACAACGA CCAGTTTT	21628
9243	UACAUCCU G CGUGAAGU	4508	ACTTCACG GGCTAGCTACAACGA AGGATGTA	21629
9245	CAUCCUGC G UGAAGUUG	4509	CAACTTCA GGCTAGCTACAACGA GCAGGATG	21630
9250	UGCGUGAA G UUGGCACC	4510	GGTGCCAA GGCTAGCTACAACGA TTCACGCA	21631
9254	UGAAGUUG G CACCCGGC	4511	GCCGGGTG GGCTAGCTACAACGA CAACTTCA	21632

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9261	GGCACC CG G C CUGGGGG	4512	CCCCCAGG GGCTAGCTACAACGA CGGGTGCC	21633
9269	GCCUGGGG G CAAGAUCU	4513	AGATCTTG GGCTAGCTACAACGA CCCCAGGC	21634
9280	AGAUCUAU G CUGAUGAC	4514	GTCATCAG GGCTAGCTACAACGA ATAGATCT	21635
9292	AUGACACA G CUGGCUGG	4515	CCAGCCAG GGCTAGCTACAACGA TGTGTCAT	21636
9296	CACAGCUG G CUGGGACA	4516	TGTCCAG GGCTAGCTACAACGA CAGCTGTG	21637
9308	GGACACCC G CAUCACGA	4517	TCGTGATG GGCTAGCTACAACGA GGGTGTCC	21638
9319	UCACGAGA G CUGACUUG	4518	CAAGTCAG GGCTAGCTACAACGA TCTCGTGA	21639
9337	AAAAUGAA G CUAAGGUG	4519	CACCTTAG GGCTAGCTACAACGA TTCATTTT	21640
9343	AAGCUAAG G UGCUUGAG	4520	CTCAAGCA GGCTAGCTACAACGA CTTAGCTT	21641
9345	GCUAAGGU G CUUGAGCU	4521	AGCTCAAG GGCTAGCTACAACGA ACCTTAGC	21642
9351	GUGCUUGA G CUGCUUGA	4522	TCAAGCAG GGCTAGCTACAACGA TCAAGCAC	21643
9354	CUUGAGCU G CUUGAUGG	4523	CCATCAAG GGCTAGCTACAACGA AGCTCAAG	21644
9372	GAACAUCG G CGUCUUGC	4524	GCAAGACG GGCTAGCTACAACGA CGATGTTC	21645
9374	ACAUCGGC G UCUUGCCA	4525	TGGCAAGA GGCTAGCTACAACGA GCCGATGT	21646
9379	GGCGUCUU G CCAGGGCC	4526	GGCCTTGG GGCTAGCTACAACGA AAGACGCC	21647
9385	UUGCCAGG G CCAUCAUU	4527	AATGATGG GGCTAGCTACAACGA CCTGGCAA	21648
9396	AUCAUUGA G CUCACCUA	4528	TAGGTGAG GGCTAGCTACAACGA TCAATGAT	21649
9407	CACCUAUC G UCACAAAG	4529	CTTTGTGA GGCTAGCTACAACGA GATAGGTG	21650
9415	GUCACAAA G UUGUGAAA	4530	TTTCACAA GGCTAGCTACAACGA TTTGTGAC	21651
9418	ACAAAGUU G UGAAAGUG	4531	CACTTTCA GGCTAGCTACAACGA AACTTTGT	21652
9424	UUGUGAAA G UGAUGCGC	4532	GCGCATCA GGCTAGCTACAACGA TTTACAAA	21653
9429	AAAGUGAU G CGCCCGGC	4533	GCCGGGCG GGCTAGCTACAACGA ATCATTCT	21654
9431	AGUGAUGC G CCCGGCUG	4534	CAGCCGGG GGCTAGCTACAACGA GCATCACT	21655
9436	UGCGCCCG G CUGCUGAU	4535	ATCAGCAG GGCTAGCTACAACGA CGGGCGCA	21656
9439	GCCCGGCU G CUGAUGGA	4536	TCCATCAG GGCTAGCTACAACGA AGCCGGGC	21657
9454	GAAGAACC G UCAUGGAU	4537	ATCCATGA GGCTAGCTACAACGA GGTCTCTC	21658
9463	UCAUGGAU G UUAUCUCC	4538	GGAGATAA GGCTAGCTACAACGA ATCCATGA	21659
9491	GAGGGGGA G UGGACAAG	4539	CTTGTCCT GGCTAGCTACAACGA TCCCCCTC	21660
9499	GUGGACAA G UUGUCACC	4540	GGTGACAA GGCTAGCTACAACGA TTGTCCAC	21661
9502	GACAAGUU G UCACCUAC	4541	GTAGGTGA GGCTAGCTACAACGA AACTTGTC	21662
9511	UCACCUAG G CCCUAAAC	4542	GTTTAGGG GGCTAGCTACAACGA GTAGGTGA	21663
9535	CCAACCUG G CCGUCCAG	4543	CTGGACGG GGCTAGCTACAACGA CAGGTTGG	21664
9538	ACCUGGCC G UCCAGCUG	4544	CAGCTGGA GGCTAGCTACAACGA GGCCAGGT	21665
9543	GCCGUCCA G CUGGUGAG	4545	CTCACCAG GGCTAGCTACAACGA TGGACGGC	21666
9547	UCCAGCUG G UGAGGAUG	4546	CATCTCTA GGCTAGCTACAACGA CAGCTGGA	21667
9571	GGGAAGGA G UGAUUGGC	4547	GCCATCA GGCTAGCTACAACGA TCCTTCCC	21668
9578	AGUGAUUG G CCCAGAUG	4548	CATCTGGG GGCTAGCTACAACGA CAATCACT	21669
9589	CAGAUGAU G UGGAGAAA	4549	TTTCTCCA GGCTAGCTACAACGA ATCATCTG	21670
9622	GACCCAAA G UCAGGACC	4550	GGTCTCTA GGCTAGCTACAACGA TTTGGGTC	21671
9633	AGGACCUG G CUGUUUGA	4551	TCAAACAG GGCTAGCTACAACGA CAGGTCCT	21672
9636	ACCUGGCU G UUUGAGAA	4552	TTCTCAA GGCTAGCTACAACGA AGCCAGGT	21673
9662	AAGACUCA G CCGCAUGG	4553	CCATGCGG GGCTAGCTACAACGA TGAGTCTT	21674
9665	ACUCAGCC G CAUGGCUG	4554	CAGCCATG GGCTAGCTACAACGA GGCTGAGT	21675
9670	GCCGCAUG G CUGUCAGU	4555	ACTGACAG GGCTAGCTACAACGA CATGCGGC	21676
9673	GCAUGGCU G UCAGUGGA	4556	TCCACTGA GGCTAGCTACAACGA AGCCATGC	21677
9677	GGCUGUCA G UGGAGAUG	4557	CATCTCCA GGCTAGCTACAACGA TGACAGCC	21678
9689	AGAUGACU G UGUGGUAA	4558	TTACCACA GGCTAGCTACAACGA AGTCATCT	21679
9691	AUGACUGU G UGGUAAAG	4559	CTTTACCA GGCTAGCTACAACGA ACAGTCAT	21680
9694	ACUGUGUG G UAAAGCCC	4560	GGGCTTTA GGCTAGCTACAACGA CACACAGT	21681
9699	GUGGUAAA G CCCUGGA	4561	TCCAGGGG GGCTAGCTACAACGA TTTACCAC	21682
9713	GGACGAUC G CUUUGCCA	4562	TGGCAAAG GGCTAGCTACAACGA GATCGTCC	21683
9718	AUCGCUUU G CCACCUCG	4563	CGAGGTGG GGCTAGCTACAACGA AAAGCGAT	21684
9726	GCCACCUC G CUCCACUU	4564	AAGTGGAG GGCTAGCTACAACGA GAGGTGGC	21685
9742	UCCUCAAU G CUAUGUCA	4565	TGACATAG GGCTAGCTACAACGA ATTGAGGA	21686
9747	AAUGCUAU G UCAAAGGU	4566	ACCTTTGA GGCTAGCTACAACGA ATAGCATT	21687
9754	UGUCAAG G UUCGCAA	4567	TTTGCGAA GGCTAGCTACAACGA CTTTGACA	21688
9758	AAAGGUUC G CAAAGACA	4568	TGTCCTTG GGCTAGCTACAACGA GAACCTTT	21689
9774	AUCCAAGA G UGGAAACC	4569	GGTTTCCA GGCTAGCTACAACGA TCTTGGAT	21690
9783	UGGAAACC G UCAACUGG	4570	CCAGTTGA GGCTAGCTACAACGA GGTTTCCA	21691
9795	ACUGGAUG G UAUGAUUG	4571	CAATCATA GGCTAGCTACAACGA CATCCAGT	21692
9804	UAUGAUUG G CAGCAGGU	4572	ACCTGCTG GGCTAGCTACAACGA CAATCATA	21693
9807	GAUUGGCA G CAGGUUCC	4573	GGAACCTG GGCTAGCTACAACGA TGCCAATC	21694

9811	GGCAGCAG G UUCCAUUU	4574	AAATGGAA GGCTAGCTACAACGA CTGCTGCC	21695
9821	UCCAUUUU G CUCAAACC	4575	GGTTTGAG GGCTAGCTACAACGA AAAATGGA	21696
9868	GAACACUG G UGGUUGCA	4576	TGGAACCA GGCTAGCTACAACGA CAGTGTTC	21697
9871	CACUGGUG G UUCCAUGC	4577	GCATGGAA GGCTAGCTACAACGA CACCAGTG	21698
9878	GGUUGCAU G CCGAGGAC	4578	GTCTCGG GGCTAGCTACAACGA ATGGAACC	21699
9898	AUGAAUUG G UAGGCAGA	4579	TCTGCCTA GGCTAGCTACAACGA CAATTCAT	21700
9902	AUUGGUAG G CAGAGCUC	4580	GAGCTCTG GGCTAGCTACAACGA CTACCAAT	21701
9907	UAGGCAGA G CUCGCAUA	4581	TATGCGAG GGCTAGCTACAACGA TCTGCCTA	21702
9911	CAGAGCUC G CAUAUCUC	4582	GAGATATG GGCTAGCTACAACGA GAGCTCTG	21703
9925	CUCCAGGG G CCGGAUGG	4583	CCATCCGG GGCTAGCTACAACGA CCCTGGAG	21704
9937	GAUGGAAC G UCCGCGAC	4584	GTCGCGGA GGCTAGCTACAACGA GTTCCATC	21705
9941	GAACGUCC G CGACACUG	4585	CAGTGTCTG GGCTAGCTACAACGA GGACGTTT	21706
9949	GGCAGACU G CUUGUCUG	4586	CAGACAAG GGCTAGCTACAACGA AGTGTCTG	21707
9953	CACUGCUU G UCUGGCUA	4587	TAGCCAGA GGCTAGCTACAACGA AAGCAGTG	21708
9958	CUUGUCUG G CUAAGUCU	4588	AGACTTAG GGCTAGCTACAACGA CAGACAAG	21709
9963	CUGGCUAA G UCUUAUGC	4589	GCATAAGA GGCTAGCTACAACGA TTAGCCAG	21710
9970	AGUCUUAU G CCCAGAUG	4590	CATCTGGG GGCTAGCTACAACGA ATAAGACT	21711
9978	GCCCAGAU G UGGCUGCU	4591	AGCAGCCA GGCTAGCTACAACGA ATCTGGGC	21712
9981	CAGAUGUG G CUGCUUCU	4592	AGAAGCAG GGCTAGCTACAACGA CACATCTG	21713
9984	AUGUGGCU G CUUCUGUA	4593	TACAGAAG GGCTAGCTACAACGA AGCCACAT	21714
9990	CUGCUUCU G UACUUGCA	4594	TGGAAGTA GGCTAGCTACAACGA AGAAGCAG	21715
10011	AGAGACCU G CGGCUCAU	4595	ATGAGCGG GGCTAGCTACAACGA AGGTCTCT	21716
10014	GACCUGCG G CUCAUGGC	4596	GCCATGAG GGCTAGCTACAACGA CGCAGGTC	21717
10021	GGCUCAUG G CCAACGCC	4597	GGCGTTGG GGCTAGCTACAACGA CATGAGCC	21718
10027	UGGCCAAC G CCAUUUGC	4598	GCAAATGG GGCTAGCTACAACGA GTTGGCCA	21719
10034	CGCCAUUU G CUCCGUG	4599	CAGCGGAG GGCTAGCTACAACGA AAATGGCG	21720
10039	UUUGCUCC G CUGUCCU	4600	AGGGACAG GGCTAGCTACAACGA GGAGCAAA	21721
10042	GUCCCGCU G UCCUGUG	4601	CACAGGGA GGCTAGCTACAACGA AGCGGAGC	21722
10048	CUGUCCU G UGAAUUGG	4602	CCAATTCA GGCTAGCTACAACGA AGGGACAG	21723
10057	UGAAUUGG G UCCUACC	4603	ATGAGGTA GGCTAGCTACAACGA CCAATTCA	21724
10077	AGAACCAC G UGUCCAU	4604	ATGGACCA GGCTAGCTACAACGA GTGTTTCT	21725
10080	ACCACGUG G UCCAUGCA	4605	TGGATGGA GGCTAGCTACAACGA CACGTGGT	21726
10090	CCAUGCAU G CAGGAGGA	4606	TCCTCTGT GGCTAGCTACAACGA ATGGATGG	21727
10101	GGAGGAGA G UGGAUGAC	4607	GTCATCCA GGCTAGCTACAACGA TCTCTCTC	21728
10122	GAGGACAU G UUGGAGGU	4608	ACCTCCAA GGCTAGCTACAACGA ATGTCTCT	21729
10129	UGUUGGAG G UCUGGAAC	4609	GTTCCAGA GGCTAGCTACAACGA CTCCAACA	21730
10139	CUGGAACC G UGUUUGGA	4610	TCCAACA GGCTAGCTACAACGA GGTTCAG	21731
10141	GGAAACCU G UUUGGAUA	4611	TATCCAAA GGCTAGCTACAACGA ATGGTTCT	21732
10183	AAACCCCA G UGGAGAAA	4612	TTTCTCCA GGCTAGCTACAACGA TGGGGTTT	21733
10196	GAAAUUGA G UGACGUCC	4613	GGACGTCA GGCTAGCTACAACGA TCCATTTT	21734
10201	GGAGUGAC G UCCCAUUA	4614	ATATGGGA GGCTAGCTACAACGA GTCCTCTC	21735
10233	GACAUCUG G UUGGCGAG	4615	CTGCCACA GGCTAGCTACAACGA CAGATGTC	21736
10235	CAUCUGGU G UGGCAGCC	4616	GGCTGCCA GGCTAGCTACAACGA ACCAGATG	21737
10238	CUGGUGUG G CAGCCUGA	4617	TCAGGCTG GGCTAGCTACAACGA CACACCAG	21738
10241	GUGUGGCA G CCUGAUUG	4618	CAATCAGG GGCTAGCTACAACGA TGCCACAC	21739
10250	CCUGAUUG G CACAAGAG	4619	CTCTTGTT GGCTAGCTACAACGA CAATCAGG	21740
10258	GCACAAGA G CCCGAGCC	4620	GGCTCGGG GGCTAGCTACAACGA TCTTGTGC	21741
10264	GAGCCCGA G CCACGUGG	4621	CCACGTGG GGCTAGCTACAACGA TCGGGCTC	21742
10269	CGAGCCAC G UGGGCAGA	4622	TCTGCCCA GGCTAGCTACAACGA GTGGCTCG	21743
10273	CCACGUGG G CAGAAAAC	4623	GTTTTCTG GGCTAGCTACAACGA CCAGTGG	21744
10288	ACAUCAG G UGGCUAUC	4624	GATAGCCA GGCTAGCTACAACGA CTGGATGT	21745
10291	UCCAGGUG G CUAUCAAC	4625	GTTGATAG GGCTAGCTACAACGA CACCTGGA	21746
10303	UCAACCAA G UCAGAGCA	4626	TGCTCTGA GGCTAGCTACAACGA TTGGTTGA	21747
10309	AAGUCAGA G CAAUCAUC	4627	GATGATTG GGCTAGCTACAACGA TCTGACTT	21748
10329	GAUGAGAA G UAUGUGGA	4628	TCCACATA GGCTAGCTACAACGA TTCTCATC	21749
10333	AGAAGUUA G UGGAUUA	4629	GTAATCCA GGCTAGCTACAACGA ATACTTCT	21750
10346	UUACAUGA G UUCACUAA	4630	TTAGTGAA GGCTAGCTACAACGA TCATGTAA	21751
10378	CAACUUUG G UUGAGGAC	4631	GTCTCTCA GGCTAGCTACAACGA CAAAGTTG	21752
10390	AGGACACA G UACUGUAG	4632	CTACAGTA GGCTAGCTACAACGA TGTCTCTT	21753
10395	ACAGUACU G UAGAUAUU	4633	AATATCTA GGCTAGCTACAACGA AGTACTGT	21754
10413	AAUCAAUU G UAAAUAGA	4634	TCTATTTA GGCTAGCTACAACGA AATTGATT	21755
10430	CAUAUAAA G UAUGCAUA	4635	TATGCATA GGCTAGCTACAACGA TTATATTG	21756

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10434	AUAAGUAAU G CAUAAAAG	4636	CTTTTATG GGCTAGCTACAACGA ATACTTAT	21757
10442	GCAUAAAA G UGUAGUUU	4637	AAACTACA GGCTAGCTACAACGA TTTTATGC	21758
10444	AUAAAAGU G UAGUUUUA	4638	TAAACTA GGCTAGCTACAACGA ACTTTTAT	21759
10447	AAAGUGUA G UUUUAUAG	4639	CTATAAAA GGCTAGCTACAACGA TACTCTTT	21760
10455	GUUUUAUA G UAGUAUUU	4640	AAATACTA GGCTAGCTACAACGA TATAAAAC	21761
10458	UUUAUAGU G UAUUUUAGU	4641	ACTAAATA GGCTAGCTACAACGA TACTATAA	21762
10465	AGUAUUUA G UGGUGUUA	4642	TAACACCA GGCTAGCTACAACGA TAAATACT	21763
10468	AUUUAGUG G UGUUAGUG	4643	CACATAAC GGCTAGCTACAACGA CACTAAAT	21764
10470	UUAGUGGU G UUAGUGUA	4644	TACACTAA GGCTAGCTACAACGA ACCACTAA	21765
10474	UGGUGUUA G UGUAAAUA	4645	TATTTACA GGCTAGCTACAACGA TAACACCA	21766
10476	GUGUUAGU G UAAAUAGU	4646	ACTATTTA GGCTAGCTACAACGA ACTAACAC	21767
10483	UGUAAAUA G UUAAGAAA	4647	TTTCTTAA GGCTAGCTACAACGA TATTTACA	21768
10506	AGGAGAAA G UCAGGCCG	4648	CGGCCTGA GGCTAGCTACAACGA TTTCTCCT	21769
10511	AAAGUCAG G CCGGGAAG	4649	CTTCCCGG GGCTAGCTACAACGA CTGACTTT	21770
10519	GCCGGGAA G UUCCCGCC	4650	GGCGGGAA GGCTAGCTACAACGA TTCCCGGC	21771
10525	AAGUCCCC G CCACCGGA	4651	TCCGGTGG GGCTAGCTACAACGA GGGAACTT	21772
10535	CACCGGAA G UUGAGUAG	4652	CTACTCAA GGCTAGCTACAACGA TTCCGGTG	21773
10540	GAAGUUGA G UAGACGGU	4653	ACCGTCTA GGCTAGCTACAACGA TCAACTTC	21774
10547	AGUAGACG G UGUGCCCU	4654	AGGCAGCA GGCTAGCTACAACGA CGTCTACT	21775
10549	UAGACGGU G CUGCCUGC	4655	GCAGGCAG GGCTAGCTACAACGA ACCGTCTA	21776
10552	ACGGUGCU G CCUGCGAC	4656	GTGCGAGG GGCTAGCTACAACGA AGCACCCT	21777
10556	UGUGCCCU G CGACUCAA	4657	TTGAGTCG GGCTAGCTACAACGA AGGCAGCA	21778
10580	AGGACUGG G UGAACAAA	4658	TTTGTTCA GGCTAGCTACAACGA CCAGTCCT	21779
10589	UGAACAAA G CCGCGAAG	4659	CTTCGCGG GGCTAGCTACAACGA TTTGTTCA	21780
10592	ACAAAGCC G CGAAGUGA	4660	TCACCTCG GGCTAGCTACAACGA GGCTTTGT	21781
10597	GCCGCGAA G UGAUCCAU	4661	ATGGATCA GGCTAGCTACAACGA TTCGCGGC	21782
10606	UGAUCCAU G UAAGCCCU	4662	AGGGCTTA GGCTAGCTACAACGA ATGGATCA	21783
10610	CCAUGUAA G CCCUCAGA	4663	TCTGAGGG GGCTAGCTACAACGA TTACATGG	21784
10622	UCAGAACG G UCUCGGAA	4664	TTCCGAGA GGCTAGCTACAACGA GGTTCCTGA	21785
10645	CCCCACAU G UUGUAACU	4665	AGTTACAA GGCTAGCTACAACGA ATGTGGGG	21786
10648	CACAUUUU G UAACUUCA	4666	TGAAGTTA GGCTAGCTACAACGA AACATGTG	21787
10659	ACUUCAAA G CCCAUGU	4667	ACATTGGG GGCTAGCTACAACGA TTTGAAGT	21788
10666	AGCCCAAU G UCAGACCA	4668	TGGTCTGA GGCTAGCTACAACGA ATTGGGCT	21789
10676	CAGACCAC G CUACGGCG	4669	CGCCGTAG GGCTAGCTACAACGA GTGTCTGT	21790
10682	ACGUACG G CGUGCUAC	4670	GTAGCAGG GGCTAGCTACAACGA CGTAGCGT	21791
10684	GUUACGGC G UGUUACUC	4671	GAGTAGCA GGCTAGCTACAACGA GCCGTAGC	21792
10686	UACGGCGU G CUACUCUG	4672	CAGAGTAG GGCTAGCTACAACGA ACGCCGTA	21793
10694	GCUACUCU G CGGAGAGU	4673	ACTCTCCG GGCTAGCTACAACGA AGAGTAGC	21794
10701	UGCGGAGA G UGCAGUCU	4674	AGACTGCA GGCTAGCTACAACGA TCTCCGCA	21795
10703	CGGAGAGU G CAGUCUGC	4675	GCAGACTG GGCTAGCTACAACGA ACTCTCCG	21796
10706	AGAGUGCA G UCUGCGAU	4676	ATCGCAGA GGCTAGCTACAACGA TGCCTCT	21797
10710	UGCAGUCU G CGAUAGUG	4677	CACATATG GGCTAGCTACAACGA AGACTGCA	21798
10716	CUGCGAUA G UGCCCCAG	4678	CTGGGGCA GGCTAGCTACAACGA TATCGCAG	21799
10718	GCGAUAGU G CCCCAGGA	4679	TTCTGGGG GGCTAGCTACAACGA ACTATCGC	21800
10734	AGGACUGG G UUAACAAA	4680	TTTGTTAA GGCTAGCTACAACGA CCAGTCCT	21801
10744	UAACAAAG G CAAACCAA	4681	TTGGTTTG GGCTAGCTACAACGA CTTTGTTA	21802
10754	AAACCAAC G CCCACGCG	4682	GCGTGGGG GGCTAGCTACAACGA GTTGGTTT	21803
10761	CGCCCCAC G CGGCCCUA	4683	TAGGGCCG GGCTAGCTACAACGA GTGGGGCG	21804
10764	CCACGCG G CCUAGCC	4684	GGCTAGGG GGCTAGCTACAACGA CGCGTGGG	21805
10770	CGGCCCUA G CCCCGGUA	4685	TACCGGGG GGCTAGCTACAACGA TAGGGCCG	21806
10776	UAGCCCCG G UAAUGGUG	4686	CACCATTA GGCTAGCTACAACGA CGGGGCTA	21807
10782	CGUAAUG G UGUUAACC	4687	GGTTAACA GGCTAGCTACAACGA CATTACCG	21808
10784	GUAAUGGU G UUAACCAG	4688	CTGGTTAA GGCTAGCTACAACGA ACCATTAC	21809
10794	UAACCAGG G CGAAAGGA	4689	TCCTTTTC GGCTAGCTACAACGA CCTGGTTA	21810
10809	GACUAGAG G UUAGAGGA	4690	TCCTCTAA GGCTAGCTACAACGA CTCTAGTC	21811
10824	GAGACCCC G CGGUUUA	4691	TTAAACCG GGCTAGCTACAACGA GGGGTCTC	21812
10827	ACCCCGCG G UUUAAAGU	4692	ACTTTAAA GGCTAGCTACAACGA CGCGGGGT	21813
10834	GGUUUAAA G UGCACGGC	4693	GCCGTGCA GGCTAGCTACAACGA TTTAAACC	21814
10836	UUUAAAGU G CACGGCCC	4694	GGGCCGTG GGCTAGCTACAACGA ACTTTAAA	21815
10841	AGUGCACG G CCCAGCCU	4695	AGGCTGGG GGCTAGCTACAACGA CGTGCACT	21816
10846	ACGGCCCA G CCUGACUG	4696	CAGTCAGG GGCTAGCTACAACGA TGGGCCGT	21817
10857	UGACUGAA G CUGUAGGU	4697	ACCTACAG GGCTAGCTACAACGA TTCAGTCA	21818

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10860	CUGAAGCU G UAGGUCAG	4698	CTGACCTA GGCTAGCTACAACGA AGCTTCAG	21819
10864	AGCUGUAG G UCAGGGGA	4699	TCCCCTGA GGCTAGCTACAACGA CTACAGCT	21820
10883	GACUAGAG G UUAGUGGA	4700	TCCACTAA GGCTAGCTACAACGA CTCTAGTC	21821
10887	AGAGGUUA G UGGAGACC	4701	GGTCTCCA GGCTAGCTACAACGA TAACCTCT	21822
10898	GAGACCCC G UGCCACAA	4702	TTGTGGCA GGCTAGCTACAACGA GGGGTCTC	21823
10900	GACCCCGU G CCACAAA	4703	TTTTGTGG GGCTAGCTACAACGA ACGGGGTC	21824
10924	ACAAACA G CAUAUGA	4704	TCAATATG GGCTAGCTACAACGA TGTTTTGT	21825
10960	GAUCUUCU G CUCUGCAC	4705	GTGCAGAG GGCTAGCTACAACGA AGAAGATC	21826
10965	UCUGUCU G CACAACCA	4706	TGTTTGTG GGCTAGCTACAACGA AGAGCAGA	21827
10974	CACAACCA G CCACACGG	4707	CCGTGTGG GGCTAGCTACAACGA TGGTTGTG	21828
10982	GCCACACG G CACAGUGC	4708	GCACTGTG GGCTAGCTACAACGA CGTGTGGC	21829
10987	ACGGCACA G UGCGCCGA	4709	TGCGCCGA GGCTAGCTACAACGA TGTGCCGT	21830
10989	GGCAGAGU G CGCCGACA	4710	TGTCGGCG GGCTAGCTACAACGA ACTGTGCC	21831
10991	CACAGUGC G CCGACAAU	4711	ATTGTGCG GGCTAGCTACAACGA GCACTGTG	21832
11001	CGACAAUG G UGGCUGGU	4712	ACCAGCCA GGCTAGCTACAACGA CATTGTGCG	21833
11004	CAUUGGUG G CUGGUGGU	4713	ACCACCAG GGCTAGCTACAACGA CACCATTG	21834
11008	GGUGGCUG G UGGUGCGA	4714	TGCGACCA GGCTAGCTACAACGA CAGCCACC	21835
11011	GGCUGGUG G UGCGAGAA	4715	TTCTCGCA GGCTAGCTACAACGA CACCAGCC	21836
11013	CUGGUGGU G CGAGAACA	4716	TGTTCTCG GGCTAGCTACAACGA ACCACCAG	21837
23	GUGAGCUG A CAAACUUA	4717	TAAGTTTG GGCTAGCTACAACGA CAGCTCAC	21838
27	GCUGACAA A CUUAGUAG	4718	CTACTAAG GGCTAGCTACAACGA TTGTCAGC	21839
47	UUGUGAGG A UUAACAAC	4719	TTGTGTTA GGCTAGCTACAACGA CCTCACA	21840
51	GAGGAUUA A CAACAUAU	4720	AATGTGTT GGCTAGCTACAACGA TAATCCTC	21841
54	GAUUAACA A CAUUAAC	4721	GTTAATTG GGCTAGCTACAACGA TGTTAATC	21842
57	UAACAACA A UUAACACA	4722	TGTGTTAA GGCTAGCTACAACGA TGTGTTA	21843
61	AACAAUUA A CACAGUGC	4723	GCACTGTG GGCTAGCTACAACGA TAATTGTT	21844
91	GCACGAAG A UCUCGAUG	4724	CATCGAGA GGCTAGCTACAACGA CTTCGTGC	21845
97	AGAUCUCG A UGUCUAA	4725	CTTAGACA GGCTAGCTACAACGA CGAGATCT	21846
108	UCUAAGAA A CCAGGAGG	4726	CCTCCTGG GGCTAGCTACAACGA TTCTTAGA	21847
140	GGCUGUCA A UAUGCUAA	4727	TTAGCATA GGCTAGCTACAACGA TGACAGCC	21848
150	AUGCUAAA A CGCGGAU	4728	ATTCCGCG GGCTAGCTACAACGA TTAGCAT	21849
157	AACGCGGA A UGCCCCGC	4729	GCGGGGCA GGCTAGCTACAACGA TCCGCGTT	21850
178	UGUCCUUG A UUGGACUG	4730	CAGTCCAA GGCTAGCTACAACGA CAAGGACA	21851
183	UUGAUUGG A CUGAAGAG	4731	CTCTTCAG GGCTAGCTACAACGA CCAATCAA	21852
208	UGAGCCUG A UCGACGGC	4732	GCCGTCGA GGCTAGCTACAACGA CAGGCTCA	21853
212	CCUGAUCG A CGGCAAGG	4733	CCTTGCCG GGCTAGCTACAACGA CGATCAGG	21854
226	AGGGGCCA A UACGAUUU	4734	AAATCGTA GGCTAGCTACAACGA TGGCCCTT	21855
231	CCAAUACG A UUUGUGUU	4735	AACACAAA GGCTAGCTACAACGA CGTATTGG	21856
271	UCACAGCA A UUGCUCG	4736	CGGAGCAA GGCTAGCTACAACGA TGCTGTGA	21857
280	UUGCUCG A CCCGAGCA	4737	TGCTCGGG GGCTAGCTACAACGA CGGAGCAA	21858
296	AGUGCUGG A UCGAUGGA	4738	TCCATCGA GGCTAGCTACAACGA CCAGCACT	21859
300	CUGGAUCG A UGGAGAGG	4739	CCTCTCCA GGCTAGCTACAACGA CGATCCAG	21860
314	AGGUGUGA A CAAACAAA	4740	TTTGTGTT GGCTAGCTACAACGA TCACACCT	21861
318	GUGAACAA A CAAACAGC	4741	GCTGTTTG GGCTAGCTACAACGA TTGTTTAC	21862
322	ACAAACAA A CAGCGAUG	4742	CATCGCTG GGCTAGCTACAACGA TTGTTTGT	21863
328	AAACAGCG A UGAAACAC	4743	GTGTTTCA GGCTAGCTACAACGA CGCTGTTT	21864
333	GCGAUGAA A CACCUUCU	4744	AGAAGGTG GGCTAGCTACAACGA TTCATCGC	21865
357	AAGAAGGA A CUAGGGAC	4745	GTCCCTAG GGCTAGCTACAACGA TCCTTCTT	21866
364	AACUAGGG A CCUUGACC	4746	GGTCAAGG GGCTAGCTACAACGA CCTAGTGT	21867
370	GGACCUUG A CCAGUGCU	4747	AGCACTGG GGCTAGCTACAACGA CAAGGTCC	21868
383	UGCUAUCA A UCGGCGGA	4748	TCCGCCGA GGCTAGCTACAACGA TGATAGCA	21869
399	AGCUCAAA A CAAAAGAA	4749	TTCTTTTG GGCTAGCTACAACGA TTTGAGCT	21870
421	GAGGAAGG A CCGGAUUU	4750	AATTCCGG GGCTAGCTACAACGA CTTTCCTC	21871
427	AGACCGGA A UUGCAGUC	4751	GACTGCAA GGCTAGCTACAACGA TCCGGTCT	21872
439	CAGUCAUG A UUGGCCUG	4752	CAGGCCAA GGCTAGCTACAACGA CATGACTG	21873
448	UUGGCCUG A UCGCCAGC	4753	GCTGGCGA GGCTAGCTACAACGA CAGGCCAA	21874
479	CCUCUCUA A CUUCCAAG	4754	CTTGGGAG GGCTAGCTACAACGA TAGAGAGG	21875
496	GGAAGGUG A UGAUGACG	4755	CGTCATCA GGCTAGCTACAACGA CACCTTCC	21876
499	AGGUGAUG A UGACGGUA	4756	TACCGTCA GGCTAGCTACAACGA CATCACCT	21877
502	UGAUGAUG A CGGUAAAU	4757	ATTTACCG GGCTAGCTACAACGA CATCATCA	21878
509	GACGGUAA A UGCUACUG	4758	CAGTAGCA GGCTAGCTACAACGA TTACCGTC	21879
518	UGCUCUG A CGUCACAG	4759	CTGTGACG GGCTAGCTACAACGA CAGTAGCA	21880

527	CGUCACAG A UGUCAUCA	4760	TGATGACA GGCTAGCTACAACGA CTGTGACG	21881
538	UCAUCACG A UUCAACA	4761	TGTTGGAA GGCTAGCTACAACGA CGTGATGA	21882
544	CGAUUCCA A CAGCUGCU	4762	AGCAGCTG GGCTAGCTACAACGA TGAATCG	21883
560	UGGAAAGA A CCUAUGCA	4763	TGCATAGG GGCTAGCTACAACGA TCTTTCCA	21884
580	UCAGAGCA A UGGAUGUG	4764	CACATCCA GGCTAGCTACAACGA TGCTCTGA	21885
584	AGCAUUGG A UGUGGGAU	4765	ATCCCACA GGCTAGCTACAACGA CCATTGCT	21886
591	GAUGUGGG A UACAUGUG	4766	CACATGTA GGCTAGCTACAACGA CCCACATC	21887
602	CAUGUGCG A UGAUACUA	4767	TAGTATCA GGCTAGCTACAACGA CGCACATG	21888
605	GUGCGAUG A UACUAUCA	4768	TGATAGTA GGCTAGCTACAACGA CATCGCAC	21889
621	ACUUAUGA A UGCCCAGU	4769	ACTGGGCA GGCTAGCTACAACGA TCATAAGT	21890
644	GGCUGGUA A UGAUCCAG	4770	CTGGATCA GGCTAGCTACAACGA TACCAGCC	21891
647	UGGUAUUG A UCCAGAAG	4771	CTTCTGGA GGCTAGCTACAACGA CATTACCA	21892
656	UCCAGAAG A CAUCGACU	4772	AGTCGATG GGCTAGCTACAACGA CTTCTGGA	21893
662	AGACAUCG A CUGUUGGU	4773	ACCAACGA GGCTAGCTACAACGA CGATGTCT	21894
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715	GCACCAAG A CACGCCAC	4775	GTGGCGTG GGCTAGCTACAACGA CTTGGTGC	21896
729	CACUCAAG A CGCAGUCG	4776	CGACTGCG GGCTAGCTACAACGA CTTGAGTG	21897
748	GGUCACUG A CAGUGCAG	4777	CTGCACTG GGCTAGCTACAACGA CAGTGACC	21898
757	CAGUGCAG A CACACGGA	4778	TCCGTGTG GGCTAGCTACAACGA CTGCACTG	21899
782	UCUAGCGA A CAAGAAGG	4779	CCTTCTTG GGCTAGCTACAACGA TCGCTAGA	21900
799	GGGCUUGG A UGGACAGC	4780	GCTGTCCA GGCTAGCTACAACGA CCAAGCCC	21901
803	UUGGAUUG A CAGACCA	4781	TGTTGCTG GGCTAGCTACAACGA CCATCCAA	21902
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908	UGGGAGCA A CACCAUGC	4788	GCATGGTG GGCTAGCTACAACGA TGCTCCCA	21909
971	CAGCUUCA A CUGCCUUG	4789	CAAGGCAG GGCTAGCTACAACGA TGAAGCTG	21910
982	GCCUUGGA A UGAGCAAC	4790	GTTGCTCA GGCTAGCTACAACGA TCCAAGGC	21911
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1102	UGAAGAUG A UGAUAUUG	4800	CATATTCA GGCTAGCTACAACGA CATCTTCA	21921
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1166	CGUCAGCG A UCUCUCCA	4803	TGGAGAGA GGCTAGCTACAACGA CGCTGACG	21924
1192	CGUGCCCG A CCAUGGGA	4804	TCCCATGG GGCTAGCTACAACGA CGGGCAGC	21925
1211	AGCUCACA A UGACAAAC	4805	GTTTGTCA GGCTAGCTACAACGA TGTGAGCT	21926
1214	UCACAAUG A CAAACGUG	4806	CACGTTTG GGCTAGCTACAACGA CATTGTGA	21927
1218	AAUGACAA A CGUGCUGA	4807	TCAGCACG GGCTAGCTACAACGA TTGTCAAT	21928
1226	ACGUGCUG A CCCAGCUU	4808	AAGCTGGG GGCTAGCTACAACGA CAGCACGT	21929
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1259	AGUGGUGG A CAGGGGCU	4810	AGCCCCTG GGCTAGCTACAACGA CCACCACT	21931
1274	CUGGGGCA A CGGCUGCG	4811	CGCAGCCG GGCTAGCTACAACGA TGCCCCAG	21932
1284	GGCUGCGG A UUAUUUGG	4812	CCAAATAA GGCTAGCTACAACGA CCGCAGCC	21933
1307	AAGCAUUG A CACAUGCG	4813	CGCATGTG GGCTAGCTACAACGA CAATGCTT	21934
1320	UGCGCCAA A UUUGCCUG	4814	CAGGCAAA GGCTAGCTACAACGA TTGGCGCA	21935
1342	CCAAGGCA A UAGGAAGA	4815	TCTTCCTA GGCTAGCTACAACGA TGCCCTGG	21936
1351	UAGGAAGA A CCAUCUUG	4816	CAAGATGG GGCTAGCTACAACGA TCTTCCTA	21937
1367	GAAAGAGA A UAUCAAGU	4817	ACTTGATA GGCTAGCTACAACGA TCTCTTTC	21938
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1405	AUGGACCA A CUACUGUG	4819	CACAGTAG GGCTAGCTACAACGA TGGTCCAT	21940
1427	GCACGGAA A CUACUCCA	4820	TGGAGTAG GGCTAGCTACAACGA TTCCGTGC	21941
1464	GCAGGGAG A UUCAGCAU	4821	ATGCTGAA GGCTAGCTACAACGA CTCCCTGC	21942

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1532	GACAGUGG A CUGUGAAC	4824	GTTACACG GGCTAGCTACAACGA CCACTGTC	21945
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1631	GGACCUC A CCUCCCUU	4834	AAGGGAGG GGCTAGCTACAACGA TGAGGTCC	21955
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1678	ACAGAGAG A CGUUAUUG	4836	CATTAACG GGCTAGCTACAACGA CTCTCTGT	21957
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1698	UUUGAGGA A CCACACGC	4838	GCGTGTGG GGCTAGCTACAACGA TCCTCAA	21959
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1840	GAGUGAAG A UGGAAAAA	4843	TTTTTCCA GGCTAGCTACAACGA CTTCACTC	21964
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1906	UUCUUGGG A CUCCCGCA	4847	TGCGGGAG GGCTAGCTACAACGA CCCAAGAA	21968
1916	UCCCGCAG A CACAGGUC	4848	GACCTGTG GGCTAGCTACAACGA CTGCGGGA	21969
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1968	ACGGAUGG A CCUUGCAA	4851	TTGCAAGG GGCTAGCTACAACGA CCATCCGT	21972
2006	UUCAUUGA A CGACCUAA	4852	TTAGGTCG GGCTAGCTACAACGA TCAATGAA	21973
2009	AUUGAACG A CCUAACGC	4853	GCGTTAGG GGCTAGCTACAACGA CGTTCAAT	21974
2014	ACGACCUA A CGCCAGUG	4854	CACTGGCG GGCTAGCTACAACGA TAGGTCGT	21975
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2390	GGGCAUCA A UGCUCGUG	4875	CACGAGCA GGCTAGCTACAACGA TGATGCCC	21996
2399	UGCUCGUG A UAGGUCCA	4876	TGGACCTA GGCTAGCTACAACGA CACGAGCA	21997
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2471	GCACGCUG A CACUGGGU	4878	ACCCAGTG GGCTAGCTACAACGA CAGCGTGC	21999
2489	UGCAUAG A CAUCAGCC	4879	GGCTGATG GGCTAGCTACAACGA CTATGGCA	22000
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2540	ACACA AUG A UGUGGAGG	4882	CCTCATCA GGCTAGCTACAACGA CATTGTGT	22003
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2696	CGAGCUGA A CACUCUUU	4891	AAAGAGTG GGCTAGCTACAACGA TCAGCTCG	22012
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2968	GCACUCGG A UGUUCCUG	4910	CAGGAACA GGCTAGCTACAACGA CCGAGTGC	22031
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2998	GCAACACA A CUGAAUGU	4912	ACATTCAG GGCTAGCTACAACGA TGTGTTGC	22033
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3726	UUCGCAGA A UCUAUUC	4963	GAATTAGA GGCTAGCTACAACGA TCTGCGAA	22084
3731	AGAAUCUA A UUCGGGAG	4964	CTCCCGAA GGCTAGCTACAACGA TAGATTCT	22085
3743	GGGAGGAG A CGUGGUAC	4965	GTACCACG GGCTAGCTACAACGA CTCCTCCC	22086
3769	UUGUGCG A CCUUCAG	4966	CTTGAAGG GGCTAGCTACAACGA CGCCATGA	22087
3778	CCUUCAG A UACAACCA	4967	TGTTGTGA GGCTAGCTACAACGA TGTGAAGG	22088
3783	AAGAUACA A CCAGUUGU	4968	AACACTGG GGCTAGCTACAACGA TGTATCTT	22089
3819	AAAGCGAG A UGGACCAA	4969	TTGGTCCA GGCTAGCTACAACGA CTCGCTTT	22090
3823	CGAGUUG A CCAACCAG	4970	CTGTTGG GGCTAGCTACAACGA CCATCTCG	22091
3827	AUGGACCA A CCAGGAGA	4971	TCTCTGG GGCTAGCTACAACGA TGGTCCAT	22092
3836	CCAGGAGA A CAUUUUGU	4972	ACAAAATG GGCTAGCTACAACGA TCTCCTGG	22093
3847	UUUUGUUG A UGUUGGCG	4973	CGCCAACA GGCTAGCTACAACGA CAACAAA	22094
3871	UCUUUCAA A UGGCUUUA	4974	ATAAGCCA GGCTAGCTACAACGA TTGAAGA	22095
3884	UUUACAG A UGCCCACC	4975	GGCGGCA GGCTAGCTACAACGA CGTGATTA	22096
3895	CCCGCCAA A UUCUGCUC	4976	GAGCAGAA GGCTAGCTACAACGA TTGGCGGG	22097
3910	UCUGGGAG A UCCCUGAU	4977	ATCAGGGA GGCTAGCTACAACGA CTCCAGAG	22098
3917	GAUCCUG A UGUGUUGA	4978	TCAACACA GGCTAGCTACAACGA CAGGGATC	22099
3926	UGUGUUGA A UUCACUGG	4979	CCAGTGAA GGCTAGCTACAACGA TCAACACA	22100
3946	UAGCUUGG A UGAUACUG	4980	CAGTATCA GGCTAGCTACAACGA CCAAGCTA	22101
3949	CUUGGAG A UACUGAGA	4981	TCTCAGTA GGCTAGCTACAACGA CATCCAAG	22102
3964	GAGCAUA A CAUUCACA	4982	TGTGAATG GGCTAGCTACAACGA TATGCTC	22103
3973	CAUUCACA A CGACAUA	4983	TGATGTCG GGCTAGCTACAACGA TGTGAATG	22104
3976	UCACAACG A CAUCAAAC	4984	GTTTGATG GGCTAGCTACAACGA CGTTGTGA	22105
3983	GACAUA A CGUGGUUG	4985	CAACCACG GGCTAGCTACAACGA TTGATGTC	22106
4012	CCCUGCUA A CACCCGGG	4986	CCCGGGTG GGCTAGCTACAACGA TAGCAGGG	22107
4026	GGGCUAG A UGUUGAA	4987	TTCAAGCA GGCTAGCTACAACGA CTCAGCCC	22108
4034	AUGCUUGA A UCUGGAG	4988	CATCCAGA GGCTAGCTACAACGA TCAAGCAT	22109
4040	GAAUCUGG A UGUGUACA	4989	TGTACACA GGCTAGCTACAACGA CCAGATTC	22110
4051	UGUACAGG A UACUGCUG	4990	CAGCAGTA GGCTAGCTACAACGA CCGTATCA	22111
4063	UGCUGUUG A UGGUCGGA	4991	TCCGACCA GGCTAGCTACAACGA CAACAGCA	22112
4072	UGGUCGGA A UAGGCAGC	4992	GCTGCCTA GGCTAGCTACAACGA TCCGACCA	22113
4084	GCAGCUUG A UCAGGGAG	4993	CTCCCTGA GGCTAGCTACAACGA CAAGCTGC	22114
4153	UAGCCUCA A CAGGACUU	4994	AAGTCCTG GGCTAGCTACAACGA TGAGGCTA	22115
4158	UCAACAGG A CUUUUCAA	4995	TTGAAAAG GGCTAGCTACAACGA CCTGTTGA	22116
4166	ACUUUUA A CCCCAUGA	4996	TCATGGGG GGCTAGCTACAACGA TGAAAAGT	22117
4174	ACCCCAUG A UCCUUGCU	4997	AGCAAGGA GGCTAGCTACAACGA CATGGGGT	22118
4188	GCUGCUGG A CUGAUUGC	4998	GCAATCAG GGCTAGCTACAACGA CCAGCAGC	22119
4192	CUGGACUG A UUGCAUGU	4999	ACATGCAA GGCTAGCTACAACGA CAGTCCAG	22120
4202	UGCAUGUG A UCCCAACC	5000	GGTTGGGA GGCTAGCTACAACGA CACATGCA	22121
4208	UGAUCCA A CCGUAAAC	5001	GTTTACGG GGCTAGCTACAACGA TGGGATCA	22122
4215	AACCGUAA A CGCGGAUG	5002	CATCCGCG GGCTAGCTACAACGA TTACGGTT	22123
4221	AAACGCGG A UGGCCCGC	5003	GCGGGCCA GGCTAGCTACAACGA CCGCGTTT	22124
4231	GGCCCGCA A CUGAAGUG	5004	CACCTCAG GGCTAGCTACAACGA TGCGGGCC	22125
4240	CUGAAGUG A UGACAGCU	5005	AGCTGTCA GGCTAGCTACAACGA CACTTCAG	22126
4243	AAGUGAUG A CAGCUGUC	5006	GACAGCTG GGCTAGCTACAACGA CATCACTT	22127
4258	UCGGCCUA A UGUUUGCC	5007	GGCAAACA GGCTAGCTACAACGA TAGGCCGA	22128

4292	AGAGCUUG A CAUUGACU	5008	AGTCAATG GGCTAGCTACAACGA CAAGCTCT	22129
4298	UGACAUUG A CUCCAUGG	5009	CCATGGAG GGCTAGCTACAACGA CAATGTCA	22130
4315	CCAUCCA A UGACUAUC	5010	GATAGTCA GGCTAGCTACAACGA TGGAAATGG	22131
4318	UUCCAAUG A CUAUCGCG	5011	CGCGATAG GGCTAGCTACAACGA CATTGGAA	22132
4351	CUUUCGUG A UUUCUGGG	5012	CCCAGAAA GGCTAGCTACAACGA CACGAAAG	22133
4362	UCUGGGAA A UCAACAGA	5013	TCTGTGA GGCTAGCTACAACGA TTCCAGA	22134
4366	GGAAAUCA A CAGAUUG	5014	CATATCTG GGCTAGCTACAACGA TGATTTC	22135
4370	AUCAACAG A UAUGUGGA	5015	TCCACATA GGCTAGCTACAACGA CTGTTGAT	22136
4378	AUAUGUGG A UUGAGAGA	5016	TCTCTCAA GGCTAGCTACAACGA CCACATAT	22137
4387	UUGAGAGA A CGGCGGAC	5017	GTCCGCGG GGCTAGCTACAACGA TCTCTCAA	22138
4394	AACGGCGG A CAUUUCCU	5018	AGGAAATG GGCTAGCTACAACGA CCGCCGTT	22139
4412	GGAAAGUG A UGCAGAAA	5019	TTTCTGCA GGCTAGCTACAACGA CACTTTC	22140
4420	AUGCAGAA A UUACAGGC	5020	GCCGTGTA GGCTAGCTACAACGA TTCTGCAT	22141
4445	AAGAAUGG A UGUGCGGC	5021	GCCGCACA GGCTAGCTACAACGA CAACTCTT	22142
4457	GCGGCUUG A UGAUGAUG	5022	CATCATCA GGCTAGCTACAACGA CAAGCCGC	22143
4460	GCUUGAUG A UGAUGGAA	5023	TTCCATCA GGCTAGCTACAACGA CATCAAGC	22144
4463	UGAUGAUG A UGGAAACU	5024	AGTTTCCA GGCTAGCTACAACGA CATCATCA	22145
4469	UGAUGGAA A CUUCCAGC	5025	GCTGGAAG GGCTAGCTACAACGA TTCCATCA	22146
4484	GCUCAUGA A UGAUCCAG	5026	CTGGATCA GGCTAGCTACAACGA TCATGAGC	22147
4487	CAUGAAUG A UCCAGGAG	5027	CTCCTGGA GGCTAGCTACAACGA CATTCATG	22148
4507	CUUGGAAG A UAUGGAUG	5028	CATCCATA GGCTAGCTACAACGA CTTCCAAG	22149
4513	AGAUAUGG A UGCUCAGA	5029	TCTGAGCA GGCTAGCTACAACGA CCATATCT	22150
4522	UGCUCAGA A UGGUCUGU	5030	ACAGACCA GGCTAGCTACAACGA TCTGAGCA	22151
4537	GUCUCGCG A UAUGUGCG	5031	CGCACTAA GGCTAGCTACAACGA CGCGAGAC	22152
4561	CCUGGGCA A UCUUGCCC	5032	GGGCAAGA GGCTAGCTACAACGA TGCCGAGG	22153
4581	GUAGUUGG A UUUUGGAU	5033	ATCCAAAA GGCTAGCTACAACGA CCAACTAC	22154
4588	GAUUUUGG A UAACUCUC	5034	GAGAGTTA GGCTAGCTACAACGA CCAAAATC	22155
4591	UUUGGAUA A CUCUCCAA	5035	TTGGAGAG GGCTAGCTACAACGA TATCCAAA	22156
4599	ACUCUCCA A UACACAAA	5036	TTGTGTGA GGCTAGCTACAACGA TGGAGAGT	22157
4628	GUUGUUGG A CACUCCCU	5037	AGGGAGTG GGCTAGCTACAACGA CCCACAAC	22158
4661	AAAGGGGG A CACGACCA	5038	TGGTCGTG GGCTAGCTACAACGA CCCCTTT	22159
4666	GGGACACG A CCACCGGC	5039	GCCGGTGG GGCTAGCTACAACGA CGTGTCCC	22160
4684	UCUACAGG A UCAUGACU	5040	AGTCATGA GGCTAGCTACAACGA CCTGTAGA	22161
4690	GGAUCAUG A CUCGUGGG	5041	CCCACGAG GGCTAGCTACAACGA CATGATCC	22162
4732	CGGGCGUG A UGUUGGAA	5042	TTCAACCA GGCTAGCTACAACGA CACGCCCC	22163
4768	GGCAUACA A CAAAAGGA	5043	TCCTTTTG GGCTAGCTACAACGA TGTATGCC	22164
4786	CGCUCUUG A UGAGCGGA	5044	TCCGCTCA GGCTAGCTACAACGA CAAAGCGG	22165
4808	CCGCCUGG A CCAUACU	5045	AGTATGGG GGCTAGCTACAACGA CCAGCGGG	22166
4835	CAAGGAGG A UCGACUUU	5046	AAAGTCGA GGCTAGCTACAACGA CCTCCTTG	22167
4839	GAGGAUCG A CUUUGUUA	5047	TAACAAAG GGCTAGCTACAACGA CGATCCTC	22168
4854	UACGGAGG A CCUGGAA	5048	TTCCAGGG GGCTAGCTACAACGA CCTCCGTA	22169
4863	CCUGGAA A UUGCAGCA	5049	TGCTGCAA GGCTAGCTACAACGA TTCCAGGG	22170
4880	CAAGUGGA A CGGGCAGG	5050	CCTGCCCG GGCTAGCTACAACGA TCCACTTG	22171
4889	CGGGCAGG A UGAGGUGC	5051	GCACCTCA GGCTAGCTACAACGA CCTGCCCG	22172
4900	AGGUGCAG A UGAUUGUG	5052	CACAATCA GGCTAGCTACAACGA CTGCACCT	22173
4903	UGCAGAUG A UUGUGGUG	5053	CACCACAA GGCTAGCTACAACGA CATCTGCA	22174
4914	GUGGUGGA A CCUGGCAA	5054	TTGCCAGG GGCTAGCTACAACGA TCCACCAC	22175
4925	UGGCAAGA A CGUUAAGA	5055	TCTTAACG GGCTAGCTACAACGA TCTTGCCA	22176
4934	CGUUAAGA A CGUCCAGA	5056	TCTGGACG GGCTAGCTACAACGA TCTTAACG	22177
4942	ACGUCCAG A CGAAACCA	5057	TGGTTTCG GGCTAGCTACAACGA CTGGACGT	22178
4947	CAGACGAA A CCAGGGGU	5058	ACCCCTGG GGCTAGCTACAACGA TTCGTCTG	22179
4963	UGUUCAAA A CACCUGAA	5059	TTGAGGTG GGCTAGCTACAACGA TTTGAACA	22180
4978	AAAGGAAA A UCGGGGCC	5060	GGCCCGGA GGCTAGCTACAACGA TTCTCCTT	22181
4990	GGCCGUG A CUUUGGAC	5061	GTCCAAAG GGCTAGCTACAACGA CACGGCCC	22182
4997	GACUUGG A CUUCCCA	5062	TGGGGAAG GGCTAGCTACAACGA CCAAAGTC	22183
5011	CCACUGGA A CAUCAGGC	5063	GCCTGATG GGCTAGCTACAACGA TCCAGTGG	22184
5026	GCUCACCA A UAGUGGAC	5064	GTCCACTA GGCTAGCTACAACGA TGGTGAGC	22185
5033	AAUAGUGG A CAAAACG	5065	CGTTTTTG GGCTAGCTACAACGA CCACTATT	22186
5039	GGACAAA A CGGUGAUG	5066	CATCACCG GGCTAGCTACAACGA TTTGTGCC	22187
5045	AAACGGUG A UGUGAUUG	5067	CAATCACA GGCTAGCTACAACGA CACGTTT	22188
5050	GUGAUGUG A UUGGCUU	5068	AAGCCCAA GGCTAGCTACAACGA CACATCAC	22189
5066	UUAUGGCA A UGGAGUCA	5069	TGACTCCA GGCTAGCTACAACGA TGCCATAA	22190

Table VI

5077	GAGUCAUA A UGCCCCAAC	5070	GTTGGGCA GGCTAGCTACAACGA TATGACTC	22191
5084	AAUGCCCA A CGGCUCAU	5071	ATGAGCCG GGCTAGCTACAACGA TGGGCATT	22192
5104	UAAGCGCG A UAGUGCAG	5072	CTGCACCTA GGCTAGCTACAACGA CGCGCTTA	22193
5122	GUGAAAGG A UGGAUGAG	5073	CTCATCCA GGCTAGCTACAACGA CCTTTCAC	22194
5126	AAGGAUGG A UGAGCCAA	5074	TTGGCTCA GGCTAGCTACAACGA CCATCCTT	22195
5134	AUGAGCCA A UCCCAGCC	5075	GGCTGGGA GGCTAGCTACAACGA TGGCTCAT	22196
5145	CCAGCCGG A UUCGAACC	5076	GGTTCGAA GGCTAGCTACAACGA CCGGCTGG	22197
5151	GGAUUCGA A CCUGAGAU	5077	ATCTCAGG GGCTAGCTACAACGA TCGAATCC	22198
5158	AACCUGAG A UGCUGAGG	5078	CCTCAGCA GGCTAGCTACAACGA CTCAGGTT	22199
5172	AGGAAAAA A CAGAUCAC	5079	GTGATCTG GGCTAGCTACAACGA TTTTTCCT	22200
5176	AAAAACAG A UCACUGUA	5080	TACAGTGA GGCTAGCTACAACGA CTGTTTTT	22201
5189	UGUACUGG A UCUCCAUC	5081	GATGGAGA GGCTAGCTACAACGA CCAGTACA	22202
5212	CCGUAAA A CAAGGAGG	5082	CCTCCTTG GGCTAGCTACAACGA TTTACCGG	22203
5221	CAAGGAGG A UUCUGCCA	5083	TGGCAGAA GGCTAGCTACAACGA CCGTCTTG	22204
5233	UGCCACAG A UCAUCAAA	5084	TTTGATGA GGCTAGCTACAACGA CTGTGGCA	22205
5252	GGCCAUAA A CAGAAGAC	5085	GTCTTCTG GGCTAGCTACAACGA TTATGGCC	22206
5259	AACAGAAG A CUGAGAAC	5086	GTTCTCAG GGCTAGCTACAACGA CTTCTGTT	22207
5266	GACUGAGA A CAGCCGUG	5087	CACGGCTG GGCTAGCTACAACGA TCTCAGTC	22208
5284	UAGCACCA A CCAGGGUU	5088	AACCTTGG GGCTAGCTACAACGA TGGTGCTA	22209
5305	CUGCUGAG A UGGCUGAA	5089	TTGAGCCA GGCTAGCTACAACGA CTCAGCAG	22210
5325	CUGAGAGG A CUGCCCAU	5090	ATGGGCAG GGCTAGCTACAACGA CCTCTCAG	22211
5344	GGUACCGA A CAUCCGCA	5091	TGCGGATG GGCTAGCTACAACGA CTGTGTACC	22212
5364	CCAGAGA A CAUAAUGG	5092	CCATTATG GGCTAGCTACAACGA TCTCTGGG	22213
5369	AGAACAUA A UGGAAUG	5093	CATTTCGA GGCTAGCTACAACGA TATGTTCT	22214
5375	UAAUGGAA A UGAGAUUG	5094	CAATCTCA GGCTAGCTACAACGA TTCCATTA	22215
5380	GAAUUGAG A UUGUUGAU	5095	ATCAACAA GGCTAGCTACAACGA CTCATTTT	22216
5387	GAUUGUUG A UGUCAUGU	5096	ACATGACA GGCTAGCTACAACGA CAACAATC	22217
5422	ACAGGCUG A UGUCUCCU	5097	AGGAGACA GGCTAGCTACAACGA CAGCCTGT	22218
5444	GGUGCCGA A CUACAACC	5098	GGTTGTAG GGCTAGCTACAACGA TCGGCACC	22219
5450	GAACUACA A CCUGUUCG	5099	CGAACAGG GGCTAGCTACAACGA TGTAGTTC	22220
5461	UGUUCGUG A UGGAUGAG	5100	CTCATCCA GGCTAGCTACAACGA CACGAACA	22221
5465	CGUGAUGG A UGAGGCUC	5101	GAGCCTCA GGCTAGCTACAACGA CCATCACG	22222
5483	UUUACCCG A CCCAGCUA	5102	TAGCTGGG GGCTAGCTACAACGA CGGTGAAA	22223
5548	CGCGGCA A UAUUCAUG	5103	CATGAATA GGCTAGCTACAACGA TGCCGCCG	22224
5557	UAUUCAUG A CAGCCACC	5104	GGTGGCTG GGCTAGCTACAACGA CATGAATA	22225
5582	CACUUCAG A UCCAUUCC	5105	GGAAATGA GGCTAGCTACAACGA CTGAAGTG	22226
5600	AGAGUACA A UUCACCAA	5106	TTGGTGAA GGCTAGCTACAACGA TGGACTCT	22227
5608	AUUCACCA A UUUCCGAC	5107	GTCCGAAA GGCTAGCTACAACGA TGGTGAAT	22228
5615	AAUUUCCG A CUUACAGA	5108	TCTGTAAG GGCTAGCTACAACGA CGGAAATT	22229
5623	ACUUCACG A CUGAGAUC	5109	GATCTCAG GGCTAGCTACAACGA CTGTAAAT	22230
5629	AGACUGAG A UCCCGGAU	5110	ATCCGGGA GGCTAGCTACAACGA CTCAGTCT	22231
5636	GAUCCCGG A UCGAGCUU	5111	AAGCTCGA GGCTAGCTACAACGA CCGGGATC	22232
5648	AGCUUGGA A CUCUGGAU	5112	ATCCAGAG GGCTAGCTACAACGA TCCAAGCT	22233
5655	AACUCUGG A UACGAAUG	5113	CATTCTGA GGCTAGCTACAACGA CCAGAGTT	22234
5661	GGAUACGA A UGGAUCAC	5114	GTGATCCA GGCTAGCTACAACGA TCGTATCC	22235
5665	ACGAAUGG A UCACAGAA	5115	TTCTGTGA GGCTAGCTACAACGA CCATTCTG	22236
5673	AUCACAGA A UACACCGG	5116	CCGGTGTA GGCTAGCTACAACGA TCTGTGAT	22237
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5713	GUGUCAAG A UGGGGAU	5118	ATTCCCCA GGCTAGCTACAACGA CTTGACAC	22239
5720	GAUGGGGA A UGAGAUUG	5119	CAATCTCA GGCTAGCTACAACGA TCCCCATC	22240
5725	GGAAUGAG A UUGCCCUU	5120	AAGGGCAA GGCTAGCTACAACGA CTCATTCC	22241
5742	UGCCUACA A CGUGCUGG	5121	CCAGCAGG GGCTAGCTACAACGA TGTAGGCA	22242
5766	GUAGUCCA A UUGAACAG	5122	CTGTTCAG GGCTAGCTACAACGA TGGACTAC	22243
5771	CCAAUUGA A CAGAAAGU	5123	ACTTCTTG GGCTAGCTACAACGA TCAATTGG	22244
5788	CGUACGAG A CGGAGUAC	5124	GTACTCCG GGCTAGCTACAACGA CTCGTACG	22245
5802	UACCCAAA A UGUAGAA	5125	TTCTTACA GGCTAGCTACAACGA TTTGGGTA	22246
5810	AUGUAAGA A CGAUGAUU	5126	AATCATCG GGCTAGCTACAACGA TCTTACAT	22247
5813	UAAGAACG A UGAUUGGG	5127	CCCAATCA GGCTAGCTACAACGA CGTTCTTA	22248
5816	GAACGAUG A UUGGGACU	5128	AGTCCCAA GGCTAGCTACAACGA CATCGTTC	22249
5822	UGAUUGGG A CUUUGUUA	5129	TAACAAAG GGCTAGCTACAACGA CCCAATCA	22250
5836	UUAUCACA A CAGACAU	5130	TATGTCTG GGCTAGCTACAACGA TGTGATAA	22251
5840	CACAACAG A CAUAUCUG	5131	CAGATATG GGCTAGCTACAACGA CTGTTGTG	22252

5851	UAUCUGAA A UGGGGGCU	5132	AGCCCCCA GGCTAGCTACAACGA TTCAGATA	22253
5861	GGGGGCUA A CUUCAAGG	5133	CCTTGAAG GGCTAGCTACAACGA TAGCCCCC	22254
5881	GCAGGGUG A UUGACAGC	5134	GCTGTCAA GGCTAGCTACAACGA CACCCTGC	22255
5885	GGUGAUUG A CAGCCGGA	5135	TCCGGCTG GGCTAGCTACAACGA CAATCACC	22256
5904	AGUGUGAA A CCAACCAU	5136	ATGGTTGG GGCTAGCTACAACGA TTCACACT	22257
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5917	CCAUCAUA A CAGAAGGA	5138	TCCTTCTG GGCTAGCTACAACGA TATGATGG	22259
5938	GGAGAGUG A UCCUGGGA	5139	TCCCAGGA GGCTAGCTACAACGA CACTCTCC	22260
5949	CUGGGAGA A CCAUCUGC	5140	GCAGATGG GGCTAGCTACAACGA TCTCCAG	22261
5962	CUGCAGUG A CAGCAGCU	5141	AGCTGCTG GGCTAGCTACAACGA CACTGCAG	22262
5985	GCCAGAG A CGUGGACG	5142	CGTCCACG GGCTAGCTACAACGA CTCTGGGC	22263
5991	AGACGUGG A CGUAUCGG	5143	CCGATACG GGCTAGCTACAACGA CCACGTCT	22264
6005	CGGUAGAA A UCCGUCGC	5144	GCGACGGA GGCTAGCTACAACGA TTCTACCG	22265
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6050	GCACACGA A UGAAGACG	5146	CGTCTTCA GGCTAGCTACAACGA TCGTGTGC	22267
6056	GAAUGAAG A CGACUCGA	5147	TCGAGTCG GGCTAGCTACAACGA CTTCAATC	22268
6059	UGAAGACG A CUCGAACU	5148	AGTTCCGAG GGCTAGCTACAACGA CGTCTTCA	22269
6065	CGACUCGA A CUUCGCCC	5149	GGGCGAAG GGCTAGCTACAACGA TCAGATCG	22270
6079	CCCAUUGG A CUGAGGCA	5150	TGCCTCAG GGCTAGCTACAACGA CCAATGGG	22271
6091	AGGCACGA A UCAUGCUG	5151	CAGCATGA GGCTAGCTACAACGA TCGTGCCT	22272
6101	CAUGCUGG A CAACAUC A	5152	TGATGTTG GGCTAGCTACAACGA CCAGCATG	22273
6104	GCUGGACA A CAUACA A	5153	TGTTGATG GGCTAGCTACAACGA TGTCACGC	22274
6110	CAACAUC A CAUGCCAA	5154	TTGGCATG GGCTAGCTACAACGA TGATGTTG	22275
6119	CAUGCCAA A CGGACUGA	5155	TCAGTCCG GGCTAGCTACAACGA TTGGCATG	22276
6123	CCAAACGG A CUGAUCGC	5156	GCGATCAG GGCTAGCTACAACGA CCGTTTGG	22277
6127	ACGGACUG A UCGUCUAA	5157	TTGAGCGA GGCTAGCTACAACGA CAGTCCGT	22278
6135	AUCGCUCA A UUCUACCA	5158	TGGTAGAA GGCTAGCTACAACGA TGAGCGAT	22279
6144	UUCUACCA A CCAGAGCG	5159	CGCTCTGG GGCTAGCTACAACGA TGGTAGAA	22280
6173	UACCAUGG A UGGGGAU	5160	ATTCTCCA GGCTAGCTACAACGA CCATGGTA	22281
6180	GAUGGGGA A UACCGGCU	5161	AGCCGGTA GGCTAGCTACAACGA TCCCCATC	22282
6209	GAGAAAAA A CUUUCUGG	5162	CCAGAAAG GGCTAGCTACAACGA TTTTCTC	22283
6219	UUUCUGGA A CUGUUGAG	5163	CTCAACAG GGCTAGCTACAACGA TCCAGAAA	22284
6229	UGUUGAGG A CUGCAGAU	5164	ATCTGCAG GGCTAGCTACAACGA CCTCAACA	22285
6236	GACUGCAG A UCUGCCAG	5165	CTGGCAGA GGCTAGCTACAACGA CTGCAGTC	22286
6290	AUACCACG A CCGGAGGU	5166	ACCTCCGG GGCTAGCTACAACGA CGTGGTAT	22287
6308	GUGCUUUG A UGGUCCUA	5167	TAGGACCA GGCTAGCTACAACGA CAAAGCAC	22288
6319	GUCCUAGG A CAAACACA	5168	TGTGTTTG GGCTAGCTACAACGA CCTAGGAC	22289
6323	UAGGACAA A CACAAUUU	5169	AAATTGTG GGCTAGCTACAACGA TTGTCCTA	22290
6328	CAAACACA A UUUUAGAA	5170	TTCTAAAA GGCTAGCTACAACGA TGTGTTTG	22291
6338	UUUAGAAG A CAACAACG	5171	CGTTGTTG GGCTAGCTACAACGA CTTCTAAA	22292
6341	AGAAGACA A CAACGAAG	5172	CTTCGTGT GGCTAGCTACAACGA TGCTTTCT	22293
6344	AGACAACA A CGAAGUGG	5173	CCACTTCG GGCTAGCTACAACGA TGTGTCT	22294
6382	AAAGGAAG A UUCUGAGG	5174	CCTCAGAA GGCTAGCTACAACGA CTTCTTTT	22295
6400	CGCGCUGG A UUGACGCC	5175	GCGTCGCA GGCTAGCTACAACGA CCAGCGCG	22296
6404	CUGGAUUG A CGCCAGGG	5176	CCCTGGCG GGCTAGCTACAACGA CAATCCAG	22297
6422	GUACUCGG A UCACCAGG	5177	CCTGGTGA GGCTAGCTACAACGA CCAGGTAC	22298
6449	GUUCAAGG A CUUCGCCU	5178	AGGCGAAG GGCTAGCTACAACGA CCTTGAAC	22299
6465	UCGGGAAA A CGUUCUCA	5179	TGAGAACG GGCTAGCTACAACGA TTTCCCGA	22300
6475	GUUCUCAG A UAGGGCUC	5180	GAGCCCTA GGCTAGCTACAACGA CTGAGAAC	22301
6502	UGGGAAAG A UGCCUGAG	5181	CTCAGGCA GGCTAGCTACAACGA CTTTCCCA	22302
6526	UGGGGAAG A CAUGGGAA	5182	TTCCCATG GGCTAGCTACAACGA CTTCCCCA	22303
6542	AGCACUUG A CACCAUGU	5183	ACATGTGT GGCTAGCTACAACGA CAAGTGCT	22304
6592	CUCACAGA A UGGCCUG	5184	CAGGGCCA GGCTAGCTACAACGA TCTGTGAG	22305
6606	CUGGAGGA A CUGCCAGA	5185	TCTGGCAG GGCTAGCTACAACGA TCCTCCAG	22306
6614	ACUGCCAG A UGCUCUUC	5186	GAAGAGCA GGCTAGCTACAACGA CTGGCAGT	22307
6625	CUCUUCAG A CAAUUGCC	5187	GGCAATTG GGCTAGCTACAACGA CTGAAGAG	22308
6628	UUCAGACA A UUGCCUUG	5188	CAAGGCAA GGCTAGCTACAACGA TGCTGAA	22309
6637	UUGCCUUG A UUGCCUUA	5189	TAAGGCAA GGCTAGCTACAACGA CAAGGCAA	22310
6655	UGAGUGUG A UGACCAUG	5190	CATGGTCA GGCTAGCTACAACGA CACACTCA	22311
6658	GUGUGAUG A CCAUGGGA	5191	TCCCATTG GGCTAGCTACAACGA CATCACAC	22312
6706	UUGGAAAG A UAGGUUUG	5192	CAAACCTA GGCTAGCTACAACGA CTTTCCAA	22313
6739	GAGUCGCG A CCUUUUUC	5193	GAAAAGGG GGCTAGCTACAACGA CGCGACTC	22314

6754	UCUGUUGG A UGGCUGAA	5194	TTCAGCCA GGCTAGCTACAACGA CCAACAGA	22315
6772	UUC CAGGA A CGAAGAUC	5195	GATCTTCG GGCTAGCTACAACGA TCCTGGAA	22316
6778	GAACGAAG A UCGCCGGA	5196	TCCGGCGA GGCTAGCTACAACGA CTTCTGTT	22317
6787	UCGCCGGA A UGUUGCUG	5197	CAGCAACA GGCTAGCTACAACGA TCCGGCGA	22318
6811	UUCUCUUG A UGAUUGUG	5198	CACAATCA GGCTAGCTACAACGA CAAGAGAA	22319
6814	UCUUGAUG A UUGUGCUA	5199	TAGCACAA GGCTAGCTACAACGA CATCAAGA	22320
6823	UUGUGCUA A UUCUGAG	5200	CTCAGGAA GGCTAGCTACAACGA TAGCACAA	22321
6843	GAGAAGCA A CGUUCGCA	5201	TGCGAACG GGCTAGCTACAACGA TGCTTCTC	22322
6853	GUUCGCAG A CAGACAAC	5202	GTTGTCTG GGCTAGCTACAACGA CTGCGAAC	22323
6857	GCAGACAG A CAACCAGC	5203	GCTGGTTG GGCTAGCTACAACGA CTGTCTGC	22324
6860	GACAGACA A CCAGCUAG	5204	CTAGCTGG GGCTAGCTACAACGA TGCTGTCT	22325
6880	UGUUCUUG A UUUGUGUC	5205	GACACAAA GGCTAGCTACAACGA CAGGAACA	22326
6892	GUGUCAUG A CCCUUGUG	5206	CACAAAGG GGCTAGCTACAACGA CATGACAC	22327
6917	GGCAGCCA A CGAGAUGG	5207	CCATCTCG GGCTAGCTACAACGA TGGCTGCC	22328
6922	CCAACGAG A UGGGUUGG	5208	CCAACCCA GGCTAGCTACAACGA CTCGTTGG	22329
6935	UUGGCUAG A UAAGACCA	5209	TGGTCTTA GGCTAGCTACAACGA CTAGCCAA	22330
6940	UAGAUAG A CCAAGAGU	5210	ACTCTTGG GGCTAGCTACAACGA CTTATCTA	22331
6950	CAAGAGUG A CAUAAGCA	5211	TGCTTATG GGCTAGCTACAACGA CACTCTTG	22332
6976	GGCAAAGA A UUGAGGUC	5212	GACCTCAA GGCTAGCTACAACGA TCTTTGCC	22333
6992	CAAGGAGA A UUUCAGCA	5213	TGCTGAAA GGCTAGCTACAACGA TCTCTTGA	22334
7019	UCUUUUGG A CUUGAGGC	5214	GGCTCAAG GGCTAGCTACAACGA CCAAAGA	22335
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7093	AGCAUUG A UCACGUCA	5218	TGACGTGA GGCTAGCTACAACGA CAAATGCT	22339
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7112	UUACAUA A CACCUCU	5220	ATGAGGTG GGCTAGCTACAACGA TGATGTAA	22341
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7129	UGACCUCA A UAAACGUU	5222	AACGTTTA GGCTAGCTACAACGA TGAGGTCA	22343
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7252	UUACGGUA A CAGCGGCA	5227	TGCCGCTG GGCTAGCTACAACGA TACCGTAA	22348
7261	CAGCGGCA A CACUCCU	5228	AAGGAGTG GGCTAGCTACAACGA TGCCGCTG	22349
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7348	CGGCCGGA A UCAUGAAG	5231	CTTCATGA GGCTAGCTACAACGA TCCGGCCG	22352
7358	CAUGAAGA A CGCUGUAG	5232	CTACAGCG GGCTAGCTACAACGA TCTTCATG	22353
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7388	GGCCACGG A CGUCCAG	5234	CTGGGACG GGCTAGCTACAACGA CCGTGGCC	22355
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7481	AGUAGUGA A CCCGUCUG	5239	CAGACGGG GGCTAGCTACAACGA TCACTACT	22360
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7519	GAAUUUUG A UCACGGCC	5242	GGCCGTGA GGCTAGCTACAACGA CAAAATTC	22363
7537	CAGCGGUG A CGCUUUGG	5243	CCAAAGCG GGCTAGCTACAACGA CACCGCTG	22364
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7579	ACGCAACA A CUGCCAUC	5247	GATGGCAG GGCTAGCTACAACGA TGTTGCGT	22368
7590	GCCAUCGG A CUCUGCCA	5248	TGGCAGAG GGCTAGCTACAACGA CCGATGGC	22369
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7642	UAACAUGG A CACUCAUA	5250	TATGAGTG GGCTAGCTACAACGA CCATGTTA	22371
7655	CAUAAAGA A CAUGGAAA	5251	TTTCCATG GGCTAGCTACAACGA TCTTTATG	22372
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7695	GCAAAAGG A CGCACCUU	5254	AAGGTGCG GGCTAGCTACAACGA CCTTTTGC	22375
7725	AAAGAAAG A CUCAACCA	5255	TGGTTGAG GGCTAGCTACAACGA CTTTCTTT	22376

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7738	ACCAGAUG A CAAAAGAA	5258	TTCTTTTG GGCTAGCTACAACGA CATCTGGT	22379
7787	CGAAGUCG A UCGCUCAG	5259	CTGAGCGA GGCTAGCTACAACGA CGACTTCG	22380
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7896	UUUCUCGA A CCGGUCGG	5265	CCGACCGG GGCTAGCTACAACGA TCGAGAAA	22386
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7957	AUAUGGCA A CCCAAAA	5269	TTTTTGGG GGCTAGCTACAACGA TGCATAT	22390
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8072	UGGAGUGG A UGUGUUCU	5274	AGAACACA GGCTAGCTACAACGA CCACTCCA	22395
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8164	AUAGGACG A UUCGGGUC	5279	GACCCGAA GGCTAGCTACAACGA CGTCTTAT	22400
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8277	CUGCUCCA A CGCCGUA	5284	TACCCGGG GGCTAGCTACAACGA TGGAGCAG	22405
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10199	AUGGAGUG A CGUCCCAU	5407	ATGGGACG GGCTAGCTACAACGA CACTCCAT	22528
10218	UCAGGAAA A CGAGAGGA	5408	TCCTCTCG GGCTAGCTACAACGA TTTCTTGA	22529
10226	ACGAGAGG A CAUCUGGU	5409	ACCAGATG GGCTAGCTACAACGA CCTCTCGT	22530
10246	GCAGCCUG A UUGGCACA	5410	TGTGCCAA GGCTAGCTACAACGA CAGGCTGC	22531
10280	GGCAGAAA A CAUCCAGG	5411	CCTGGATG GGCTAGCTACAACGA TTTCTGCC	22532
10298	GGCUAUCA A CCAAGUCA	5412	TGACTTGG GGCTAGCTACAACGA TGATAGCC	22533
10312	UCAGAGCA A UCAUCGGA	5413	TCCGATGA GGCTAGCTACAACGA TGCTCTGA	22534
10322	CAUCGGAG A UGAGAAGU	5414	ACTTCTCA GGCTAGCTACAACGA CTCCGATG	22535
10337	GUAUGUGG A UUACAUGA	5415	TCATGTAA GGCTAGCTACAACGA CCACATAC	22536
10359	CUAAGAG A UAUGAGA	5416	TCTTCATA GGCTAGCTACAACGA CTCTTAG	22537
10367	AUAUGAAG A CACAACUU	5417	AAGTTGTG GGCTAGCTACAACGA CTTCTAT	22538
10372	AAGACACA A CUUUGGUU	5418	AACCAAAG GGCTAGCTACAACGA TGTGTCTT	22539
10385	GGUUGAGG A CACAGUAC	5419	GTACTGTG GGCTAGCTACAACGA CCTCAACC	22540
10399	UACUGUAG A UAUUUAU	5420	ATTAAATA GGCTAGCTACAACGA CTACAGTA	22541
10406	GAUAUUUA A UCAAUUGU	5421	ACAATTGA GGCTAGCTACAACGA TAAATATC	22542
10410	UUUAAUCA A UUGUAAAU	5422	ATTTACAA GGCTAGCTACAACGA TGATTAAA	22543
10417	AAUUGUAA A UAGACAAU	5423	ATTGTCTA GGCTAGCTACAACGA TTACAATT	22544
10421	GUAAAUAG A CAUAUAA	5424	TTATATTG GGCTAGCTACAACGA CTATTTAC	22545
10424	AAUAGACA A UAUAAGUA	5425	TACTTATA GGCTAGCTACAACGA TGTCTATT	22546
10480	UAGUGUAA A UAGUUAAG	5426	CTTAACCTA GGCTAGCTACAACGA TTACACTA	22547
10492	UUAAGAAA A UUUUGAGG	5427	CCTCAAAA GGCTAGCTACAACGA TTTCTTAA	22548
10544	UUGAGUAG A CGUGGCUG	5428	CAGCACCG GGCTAGCTACAACGA CTAACCAA	22549
10559	UGCCUGCG A CUCAACCC	5429	GGGTTGAG GGCTAGCTACAACGA CGCAGGCA	22550
10564	GCGACUCA A CCCCAGGA	5430	TCCTGGGG GGCTAGCTACAACGA TGAGTCGC	22551
10575	CCAGGAGG A CUGGGUGA	5431	TCACCCAG GGCTAGCTACAACGA CCTCTTGG	22552
10584	CUGGGUGA A CAAAGCCG	5432	CGGCTTTG GGCTAGCTACAACGA TCACCCAG	22553
10600	GCGAAGUG A UCCAUGUA	5433	TACATGGA GGCTAGCTACAACGA CACTTCGC	22554
10619	CCCUCAGA A CCGUCUCG	5434	CGAGACGG GGCTAGCTACAACGA TCTGAGGG	22555
10636	GAAGGAGG A CCCCACAU	5435	ATGTGGGG GGCTAGCTACAACGA CCTCTTTC	22556
10651	AUGUUGUA A CUUCAAG	5436	CTTTGAAG GGCTAGCTACAACGA TACAACAT	22557
10664	AAAGCCCA A UGUCAGAC	5437	GTCTGACA GGCTAGCTACAACGA TGGGCTTT	22558
10671	AAUGUCAG A CCACGCUA	5438	TAGCGTGG GGCTAGCTACAACGA CTGACATT	22559
10713	AGUCUGCG A UAGUGCCC	5439	GGGCACTA GGCTAGCTACAACGA CGCAGACT	22560
10729	CCAGGAGG A CUGGGUUA	5440	TAACCCAG GGCTAGCTACAACGA CCTCCTGG	22561
10738	CUGGGUUA A CAAAGGCA	5441	TGCCTTTG GGCTAGCTACAACGA TAACCCAG	22562

10748	AAAGGCAA A CCAACGCC	5442	GGCGTTGG GGCTAGCTACAACGA TTGCCTTT	22563
10752	GCAAACCA A CGCCCCAC	5443	GTGGGGCG GGCTAGCTACAACGA TGGTTTGC	22564
10779	CCCCGUA A UGGUGUUA	5444	TAACACCA GGCTAGCTACAACGA TACCGGGG	22565
10788	UGGUGUUA A CCAGGGCG	5445	CGCCCTGG GGCTAGCTACAACGA TAACACCA	22566
10802	GCGAAAGG A CUAGAGGU	5446	ACCTCTAG GGCTAGCTACAACGA CCTTTCGC	22567
10819	UAGAGGAG A CCCC GCGG	5447	CCGCGGGG GGCTAGCTACAACGA CTCCTCTA	22568
10851	CCAGCCUG A CUGAAGCU	5448	AGCTTCAG GGCTAGCTACAACGA CAGGCTGG	22569
10876	GGGGAAGG A CUAGAGGU	5449	ACCTCTAG GGCTAGCTACAACGA CCTTCCCC	22570
10893	UAGUGGAG A CCCCUGC	5450	GCACGGGG GGCTAGCTACAACGA CTCCACTA	22571
10908	GCCACAAA A CACCACAA	5451	TTGTGGTG GGCTAGCTACAACGA TTTGTGGC	22572
10916	ACACCACA A CAAAACAG	5452	CTGTTTGG GGCTAGCTACAACGA TGTGGTGT	22573
10921	ACAACAAA A CAGCAUUA	5453	ATATGCTG GGCTAGCTACAACGA TTTGTGT	22574
10932	GCAUAUUG A CACCUGGG	5454	CCCAGGTG GGCTAGCTACAACGA CAATATGC	22575
10941	CACCUGGG A UAGACUAG	5455	CTAGTCTA GGCTAGCTACAACGA CCCAGGTG	22576
10945	UGGGAUAG A CUAGGAGA	5456	TCTCCTAG GGCTAGCTACAACGA CTATCCCA	22577
10953	ACUAGGAG A UCUUCUGC	5457	GCAGAAGA GGCTAGCTACAACGA CTCCTAGT	22578
10970	UCUGCACA A CCAGCCAC	5458	GTGGCTGG GGCTAGCTACAACGA TGTGCAGA	22579
10995	GUGCGCGG A CAAUGGUG	5459	CACCATTG GGCTAGCTACAACGA CGGCGCAC	22580
10998	CGCCGACA A UGGUGGCU	5460	AGCCACCA GGCTAGCTACAACGA TGTGGGCG	22581
11019	GUGCGAGA A CACAGGAU	5461	ATCCTGTG GGCTAGCTACAACGA TCTCGCAC	22582

Input Sequence = AF196835. Cut Site = R/Y

Arm Length = 8. Core Sequence = GGCTAGCTACAACGA

AF196835 West Nile virus strain NY99-flamingo382-99, complete genome

Table VII

Table VII: WNV Amberzyme and Target Sequence

Pos	Substrate	Seq ID	Ribozyme	R# Seq ID
9	AGUAGUUC G CCUGUGUG	3462	CACACAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAACUACU	22583
13	GUUCGCCU G UGUGAGCU	3463	AGCUACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCGAAC	22584
15	UGCCCUUG G UGAGCUGA	3464	UCAGCUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAGGCGA	22585
19	CUGUGUGA G CUGACAAA	3465	UUUGUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCACACAG	22586
32	CAAACTUA G UAGUGUUU	3466	AAACACUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGUUGU	22587
35	ACUUAUGA G UGUUUGUG	3467	CACAAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACUUAAGU	22588
37	UUAUGAGU G UUUGUGAG	3468	CUCACAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUACUAA	22589
41	UAGUGUUU G UGAGGAUU	3469	AAUCCUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAACACUA	22590
66	UUAACACA G UGCGAGCU	3470	AGUCGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGUUA	22591
68	AACACAGU G CGAGCUGU	3471	ACAGCUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGUGUU	22592
72	CAGUGCGA G CUGUUCU	3472	AGAAACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGCACUG	22593
75	UGCGAGCU G UUUCUUG	3473	CUAAGAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUCGCA	22594
83	GUUUCUUA G CACGAAGA	3474	UCUUCGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGAGAAC	22595
99	AUCUCGAU G UCUAAGAA	3475	UUCUUA GA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCGAGAU	22596
117	CCAGAGAG G CCGGCGAA	3476	UUGCCGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUCUCUG	22597
122	AGGCGCGG G CAAGAGCC	3477	GGCUCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGCGCCU	22598
128	CGGCGAGA G CCGGCGU	3478	CAGCCUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUUGCCG	22599
133	AGAGCGGG G CUGUCAU	3479	AUUGACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCGUCU	22600
136	GCCGGGCU G UCNAUUG	3480	CAUAUUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCCGCG	22601
144	GUCAUAU G CUAAAACG	3481	CGUUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUUUGAC	22602
152	GUAAAAC G CGGAUUG	3482	GCAUUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUUUAGC	22603
159	CGCGGAU G CCGCGCU	3483	ACGCGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCGCG	22604
164	AUGGCCC G CGUGUUG	3484	ACAAACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGGCAU	22605
166	UGCCCGCG G UGUUGUCC	3485	GGACACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGGGGA	22606
168	CCCCGGU G UUGUCCU	3486	AAGGACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGGGGG	22607
171	CGCGGUU G UCCUGAU	3487	AUCAAGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACACGCG	22608
193	UGAAGAGG G CUAUGUUG	3488	CAACAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUCUUA	22609
198	AGGGCUAU G UUGAGCCU	3489	AGGCUCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUAGCCCU	22610
203	UAUGUUGA G CCUGAUCG	3490	CGAUACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAACAUA	22611
215	GAUCCAGG G CAAGGGCG	3491	GCCCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGAUC	22612
222	GGCAAGGG G CCAUACG	3492	CGUAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUUGCC	22613
235	UACGAUUU G UUGUGCU	3493	AGCCACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUCGUA	22614
237	CGAUUUU G UUGGCUU	3494	AGAGCAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAAUCG	22615
241	UUGUGUUG G CUCUCUUG	3495	CAAGAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACACAA	22616
250	CUCUCUUG G CGUUCUUC	3496	GAAGAACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGAGAG	22617
252	CUCUUGCG G UUCUUCAG	3497	CUGAAGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCAAAGAG	22618

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261	UUCUUCAG G UUCACAGC	3498	GCUGUGAA GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG CUGAAGAA	22619
268	GUUCACA G CAUUGCU	3499	AGCAUUG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UGUUAACC	22620
274	CAGCAAU G CUCCGACC	3500	GAGCGAG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AAUUGCUG	22621
286	CGACCGA G CUGGUCUG	3501	CAGCAGG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UCGGGUCG	22622
289	CCGAGCA G UGUGGAU	3502	AUCAGCA GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UGCUCGGG	22623
291	CGAGCAGU G CUGGAUCG	3503	CGAUCCAG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG ACUGCUCG	22624
308	AUGGAG G UGUGAACA	3504	UGUACAA GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG CUCUCCAU	22625
310	GGAGAGU G UGAACAAA	3505	UUUUGUA GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG ACCUCUCC	22626
325	AACAAACA G CGAUGAAA	3506	UUUCAUCG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UGUUUGUU	22627
344	CCUUCUGA G UUUUAAGA	3507	UCUUAAA GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UCAGNAGG	22628
374	CUUGACCA G UGCUAUCA	3508	UGAUAGCA GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UGGUCAAG	22629
376	UGACCAAGU G CUAUCAAU	3509	AUGAUAG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG ACUGGUCA	22630
387	AUCAUUG G CGGAGCUC	3510	GAGTCCG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG CGAUTGAU	22631
392	UCGGCGGA G CUCAAAAC	3511	GUUUGAG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UCCGCCGA	22632
430	CCGGAUU G CAGUCAUG	3512	CAUACUG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AAUUCGGG	22633
433	GAUUGCA G UCAUGAUU	3513	AAUCAUG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UGCAAUUC	22634
443	CAUGAUUG G CCUGAUCG	3514	CGAUCAGG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG CAUAUUG	22635
451	GCCUGAU G CCAGCGUA	3515	UACUCUG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG GAUFCAGC	22636
455	GAUGCCA G CGUAGGAG	3516	CCUCUAC GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UGGCGAUC	22637
457	UGCCNCG G UAGGAGCA	3517	UGUCCUA GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG GCUUGCGA	22638
463	GCGUAGA G CAGTUACC	3518	GGUAACUG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UCCUACGC	22639
466	UAGGAGCA G UUACCCUC	3519	GAGGUAA GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UGCUCCUA	22640
493	AAGGAAG G UGAUGAU	3520	CAUCAUA GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG CUUCCCUU	22641
505	UGAUGACG G UAAAGUCU	3521	AGCAUUA GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG CGUCAUCA	22642
511	CGGUAAU G CUACUGAC	3522	GUACAGU GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AUUUAACG	22643
520	CUACUGAC G UCACAGAU	3523	AUCUGUGA GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG GUCAGUAG	22644
529	UCACAGU G UCAUCACG	3524	CGUGAUGA GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AUGUGUGA	22645
547	UUCCHACA G CUGCTUGA	3525	UCCAGCAG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UGUUGGAA	22646
550	CAACAGCU G UGGAAAG	3526	CUUCCAG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AGCUGUUG	22647
566	GAACCUAU G CAUUGUCA	3527	UGACAAUG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AUAGGUUC	22648
571	UAUGCAU G UCAGAGCA	3528	UGUCUGA GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AAUGCAUA	22649
577	UUGUCAGA G CAUUGAU	3529	AUCAUUG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UCUUGACAA	22650
586	CAUGGAU G UGGGAUAC	3530	GUAUCCCA GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AUCCAUG	22651
597	GGAUACAU G UGCGAUGA	3531	UCAUCGCA GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AUGUAUCC	22652
599	AUACAGU G CGAUGAU	3532	UAUCAUG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG ACAUGAU	22653
623	UUAUGAU G CCCAGUC	3533	GCACUGG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AUUCAUA	22654
628	AAUGCCA G UGCGUGCG	3534	CGACAGCA GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG UGGCAU	22655
630	UGCCAGU G CUGUCGGC	3535	GCCACAG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG ACUGGGCA	22656
633	CCAGUGCU G UCGGCUUG	3536	CCAGCCGA GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG AGCACUUG	22657
637	UGCUGUC G CUGUAU	3537	AUAACAG GGA GCGGUUAGGC UCCUUCAAGGA GCGGUUAGGC UCCGGG CGACAGCA	22658

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641	GUUGGCUUG G UAAUGAUC	3538	GAUCAUUA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CAGCCGAC	22659
665	CAUCGACU G UUGGUGCA	3539	UGCACAA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG AGUGAUG	22660
669	GACUGUUG G UGCACAA	3540	UUUGUGCA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CAACAGUC	22661
671	UGUUGGU G CACAAAGU	3541	ACUUUGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG ACCAAGC	22662
678	CUGACAA G UCAGCAGU	3542	ACUGUGA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UUGUGCA	22663
682	CAAAGUCA G CAGUCUAC	3543	GUAGACU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UGACUUG	22664
685	AGUCAGCA G UCUACGUC	3544	GACGAGA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UGCUAGU	22665
691	CAGUCUAC G UCAGGUU	3545	AUACUGA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG GUAGACU	22666
696	UAGUCAG G UAUUGAAG	3546	CUUCUAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CUGACGUA	22667
707	UGGAAGAU G CACCAAGA	3547	UCUUGUG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG AUCUCCA	22668
719	CAAGACAC G CCACUCAA	3548	UUGAGUG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG GUGUCUUG	22669
731	CUAAGAC G CAGUCGGA	3549	UCCGACU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG GUGUCUAG	22670
734	AAGACGCA G UCGGAGU	3550	ACUCCGA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UGCUUUG	22671
741	AGUCGGAG G UCACTAGC	3551	GUACUGA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CUCGACU	22672
751	CACUGACA G UGCAGACA	3552	UGUCUGA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UGUCAGUG	22673
753	CUGACAGU G CAGACACA	3553	UGUGUCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG ACUGUCAG	22674
770	CGGAGAAA G CACUCUAG	3554	CUAGAGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UUUCUCCG	22675
778	GCACUCA G CGACACAG	3555	CUUGUCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UAGAGUGC	22676
793	AGAAGGG G CUUGAUG	3556	CAUCCAG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CCGUUCU	22677
806	GAGGACA G CACCAAGG	3557	CUUGUGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UGUCUUC	22678
814	GCACCAAG G CCACAAGG	3558	CCUUGUG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CUUGUGC	22679
822	GCCACAAG G UAUUUGU	3559	ACCAUAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CUUGUGC	22680
829	GUUAUUG G UAAAAACA	3560	UGUUUAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CAAAUACC	22681
868	CUGGAUUG G CCUGUGU	3561	CACACGG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG AUUCCAG	22682
874	AUGCCUUG G UGGCAGCC	3562	GGCUGCA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CAGGCAU	22683
877	CCUGUGU G CAGCCGUC	3563	GACGGUG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CACACGG	22684
880	UGGUGGCA G CCGUCAU	3564	AAUGACG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UGCCACCA	22685
883	UGGCAGCC G UCAUUGU	3565	ACCAUGA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG GGCUGCCA	22686
890	CGUCAUUG G UUGGAUGC	3566	GCAUCAA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CAUAGACG	22687
897	GUUGGAU G CUUGGGAG	3567	CUCCCAAG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG AUCCAACC	22688
905	GUUGGGA G CAACACCA	3568	UGGUGUG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UCCCAAGC	22689
915	AACACCAU G CAGAGAGU	3569	ACUCUCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG AUGGUGU	22690
922	UGCAGAGA G UUGUGUUU	3570	AAACACA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UCUCUGCA	22691
925	AGAGAGU G UGUUGUC	3571	GACAAACA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG AACUCU	22692
927	AGAGUUGU G UUGUGCU	3572	ACGACAA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG ACAUCU	22693
931	UUGUGUUU G UCGUGCUA	3573	UAGACGA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG AACACAA	22694
934	UUUUUGUC G UGCUAUUG	3574	CAUAUGA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG GACAAACA	22695
936	UUUUUGUC G CUUUGCU	3575	AGCAUAG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG ACGACAA	22696
942	GUUCUUGU G CUUUGGU	3576	ACCAAAG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG AUUAGCAC	22697
949	UGCUUUG G UGGCCCCA	3577	UGGGCCA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CAAAAGCA	22698

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952	UUUUGUG G CCCAGCU	3578	AGCUGGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACCAAAA	22699
958	UGGCCCCA G CUUACAGC	3579	GCUGUAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGGGCCA	22700
965	AGCUUACA G CUUCAACU	3580	AGUUGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUAAGCU	22701
974	CUUCAACU G CCUUGGAA	3581	UCCCAAGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUUGAAG	22702
986	UGGAUAGA G CAACAGAG	3582	CUUGUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAUUDCA	22703
1009	UGGAAGA G UGUCUGGA	3583	CUCCAGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUUDCA	22704
1011	GAAGGAGU G UCUGGAGC	3584	GCUCAGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUCCUUC	22705
1018	UGUCUGGA G CAACAUUG	3585	CAUGUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAGACA	22706
1027	CAACAUUG G UGGAUUUG	3586	CAAAUCCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAUGUUG	22707
1036	UGGAUUUG G UUCUGGAA	3587	UUGAGAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAAUCCA	22708
1046	UCUGAAG G CGACAGCU	3588	AGCUGUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUCGAGA	22709
1052	AGCGACA G CUGCGUGA	3589	UCACGCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUCGCCU	22710
1055	CGACAGCU G CGUGACUA	3590	UAGUCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCUGUG	22711
1057	ACAGCUG G UGACUAUC	3591	GAUAGUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCAGCUUG	22712
1068	ACUAUCAU G UCURAGGA	3592	UCCUAGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGAUAGU	22713
1080	AAGACAA G CCUACCAU	3593	AUGUAGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGUCCUU	22714
1093	CCAUCGAU G UGAAGAUG	3594	CAUCUUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCGAUGG	22715
1114	AUAUGGAG G CGGUCAAC	3595	GUUGACG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCCAUAU	22716
1117	UGAGGGCG G UCAACCTUG	3596	CAGGUUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGCCUCCA	22717
1126	UCRACCTG G CAGAGGUC	3597	GACUCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGGUUGA	22718
1132	UGGACAG G UCCGCAGU	3598	ACUGCGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUGCCA	22719
1136	AGAGGUCC G CAGUUAUU	3599	AAUAUCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGACCUUC	22720
1139	GGUCCGCA G UUAUUUGU	3600	AGCAUAUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCGGACC	22721
1145	CAGUUAUU G CUUUUUGG	3601	CCAAUAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUAACUG	22722
1153	GUUUUUU G CUACCGUC	3602	GACGGUAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAAUAGC	22723
1159	UGCUUACC G UCAGCGAU	3603	AUGCUUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGUAGCCA	22724
1163	UACCGUCA G CGAUUCU	3604	AGAGUUCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGACGUA	22725
1180	CCACCAA G CUGCGUGC	3605	GCACGCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUGGUGG	22726
1183	CCAAGCU G CGUGCCCG	3606	CGGGCACG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCUTUGG	22727
1185	AAAGCUGC G UGCCCGAC	3607	GUGGGCCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCAGCUUU	22728
1187	AGCUGUGU G CCGACCA	3608	UGGUCGGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACGCAGCU	22729
1204	UGGGAGAA G CUACAAU	3609	AUUGAGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCUCCCA	22730
1220	UGACAAAC G UGUGUACC	3610	GGUCAGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUUGUCA	22731
1222	ACAAAGU G CUGACCCA	3611	UGGGUCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACGUUUGU	22732
1231	CUGACCCA G CUUUUGUG	3612	CACAAAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGGUCAG	22733
1237	CAGUUUU G UGUGCAGA	3613	UGUGACA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAAGCTUG	22734
1239	GUUUUGU G UGACAGCA	3614	UGUUGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAAAAGC	22735
1241	UUUUUGU G CAGACAAG	3615	CUUGUCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACACAAA	22736
1252	GACAGGA G UGGUGGAC	3616	GUCCACCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUUGUC	22737
1255	AAGAGUG G UGACAGG	3617	CCUGUCCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACUCUU	22738

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1265	GGACAGGG G CUGGGGCA	3618	UGCCCCAG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG CCUGUCC	22739
1271	GGCGUGG G CAACGGCU	3619	AGCCGUG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG CCAGCCC	22740
1277	GGCAACG G CUGCGGAU	3620	AUCCGAG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG CGUUGCCC	22741
1280	CGACGGC G CGGAUUU	3621	AUAACCG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG AGCGUUG	22742
1292	AUAUUUG G CAAAGGAA	3622	UUCUUUG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG CAAUAUU	22743
1301	CAAAGGAA G CAUUGACA	3623	UGUCAUG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG UUCUUUG	22744
1313	UGACACAU G CGCCAAU	3624	AUUUGCG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG AUGUUA	22745
1315	ACACUGC G CCAAAUU	3625	AAAUUGG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG GCAUGU	22746
1324	CCAAUUU G CUGUCU	3626	AGAGCAG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG AAUUGG	22747
1328	AUUUGCCU G CUGUACCA	3627	UGGUAGG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG AGCAAAU	22748
1339	CUACCAAG G CAAUAGGA	3628	UCCUAUG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG UUGUAG	22749
1374	AAUAUCAA G UACGAAGU	3629	ACUUCUA GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG CUUGAUU	22750
1381	AGUACGAA G UGGCCAUU	3630	AAUGGCA GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG UUCGUACU	22751
1384	ACGAAGUG G CCAUUUUU	3631	AAAAUGG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG CACUUCGU	22752
1393	CCAUUUU G UCAUGGA	3632	UCCAUGA GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG AAAAUUG	22753
1411	CAACUACU G UGGAGUCG	3633	CGACUCCA GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG AGUAGUUG	22754
1416	ACUGUGGA G UCGCACGG	3634	CGUGGGA GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG UCCACAGU	22755
1419	GUGGAGUC G CACGGAAA	3635	UUUCCUG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG GACUCCAC	22756
1441	CCACACAG G UUGGAGCC	3636	GGCUCAA GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG CUGUGUG	22757
1447	AGUUGGA G CCACUCAG	3637	CGUUGG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG UCCACCU	22758
1456	CCACUCAG G CAGGAGA	3638	UUCUCCUG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG CUGAGUG	22759
1469	GAGAUCA G CAUCACUC	3639	GAGUGAG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG UGAUUCUC	22760
1480	UCACUCCU G CGGCGCCU	3640	AGGCGCG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG AGGAGUGA	22761
1483	CUCCUGG G CGCUUCA	3641	UGAAGCG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG CGCAGAG	22762
1485	CCUGCGG G CCUUCAUA	3642	UAUGAAG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG GCGCAGG	22763
1503	ACACUAAA G CUUGGAGA	3643	UCUCCAG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG UUUAGUGU	22764
1522	AUGGAGAG G UGACAGUG	3644	CACUGUA GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG CUUCCAU	22765
1528	AGUGACA G UGGACUGU	3645	ACAGUCCA GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG UGUCCACU	22766
1535	AGUGGACU G UGAACCCAC	3646	GUGGUUCA GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG AGUCCACU	22767
1545	GAACACG G UCAGGGAU	3647	AUCCCUA GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG CGUGGUUC	22768
1564	ACACCAU G CAUACUAC	3648	GUAGUAG GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG AUUGUGU	22769
1573	CAUACUAC G UGAUGACU	3649	AGUCAUA GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG GUAGUAG	22770
1582	UGAUGACU G UUGGAACA	3650	UGUCCAA GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG AGUCAUA	22771
1596	ACAAAGAC G UUCUUGGU	3651	ACCAAGAA GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG GUCUUUGU	22772
1603	CGUUCUG G UCAUCGU	3652	ACGAUGA GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG CAAGAAG	22773
1610	GUUCCAU G UGAGUGGU	3653	ACCAUGA GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG GAUGGACC	22774
1614	CGUGUGA G UGUUUAU	3654	UGAUAUA GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG UCAGUAG	22775
1617	CGUGUGG G UUCAUGGA	3655	UCCAUGAA GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG CACUACG	22776
1643	CCUUGGA G CAGUGCUG	3656	CAGCACU GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG UCCAGGG	22777
1646	UUGGAGCA G UGCUGGAA	3657	UUCAGCA GGA GCGUUAGGC UCCCUUCAAGGA GCGUUAGGC UCCGG UGUCCAA	22778

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1648	GGAGCAGU G CUGGAAGU	3658	ACTUCCAG GGA GCCGUUAGGC	UCCUUCUAAGGA	GCCGUUAGGC	UCCGGG	ACUGCUCC	22779
1655	UGCUGGAA G UACUGUGU	3659	ACACAGUA GGA GCCGUUAGGC	UCCUUCUAAGGA	GCCGUUAGGC	UCCGGG	UUCACGCA	22780
1660	GAGGUAGU G UUGGAGG	3660	CUCCACA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	AGUACUUC	22781
1662	AGUACUUGU G UGGAGGAA	3661	UUCUCCA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	ACAGUACU	22782
1680	AGAGAGAC G UUAUUGGA	3662	UCCAUUAA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	GUCUCUCU	22783
1689	UUAUUGGA G UUGAGGGA	3663	UCCUCAAA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	UCCAUUAA	22784
1705	AACACAC G CCACGAAG	3664	CUUCUGG GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	GUGUGGUU	22785
1713	GCCACGAA G CAGUCUGU	3665	ACAGACUG GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	UUCUGGCG	22786
1716	ACGAAGCA G UCUGUGAU	3666	AUCACAGA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	UGCUUCGU	22787
1720	AGCAGUCU G UGAUAGCA	3667	UGCUAUCA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	AGACUGCU	22788
1726	CUGUGAUA G CAUUGGGC	3668	GCCCAUAG GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	UAUACACAG	22789
1733	AGCAUUGG G CUCACAAAG	3669	CUUGUGAG GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	CCAAUGCU	22790
1747	AAGAGGGA G CUCUGCAU	3670	AUGCAGAG GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	UCCUCUCU	22791
1752	GGAGCUCU G CAUCAAGC	3671	GCUGAUG GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	AGAGCUCC	22792
1759	UGCAUCAA G CUUUGGCU	3672	AGCCAAAG GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	UUGAUGCA	22793
1765	AAGCUUG G CUGGAGCC	3673	GGCUCCAG GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	CAAAGCUU	22794
1771	UGGCUUGA G CCAUUCUU	3674	AGGAUUGG GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	UCCAGCCA	22795
1780	CCAUUCUU G UGGAUUTU	3675	AAAUUCCA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	AGGAUUGG	22796
1793	AUUUUCAA G CAACACUG	3676	CAGUUGUG GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	UUGAAAAU	22797
1801	GCAACUUA G UCAAGUUG	3677	CAACUUGA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	AGUGUUGC	22798
1806	ACUGUCAA G UUGACGUC	3678	GACGUCAA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	UUGACAGU	22799
1812	ARGUUGAC G UCGGGUCA	3679	UGACCCGA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	GUCAACUU	22800
1817	GACGUCGG G UCAUUUGA	3680	UCAAUUGA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	CCGACGUC	22801
1827	CAUUUGNA G UGUAGAGU	3681	ACUCUACA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	UUCAAAUG	22802
1829	UUUGAAGU G UAGAGUGA	3682	UCACUCUA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	ACUUCAAA	22803
1834	AGUGUAGA G UGAAGAUG	3683	CAUCUUCA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	UCUACACU	22804
1851	GAUAAAUU G CAGUUGAA	3684	UUCAACUG GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	AUUUUUUC	22805
1854	AAAUUGCA G UUGAAGGG	3685	CCCUUCAA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	UGCAAUUTU	22806
1874	AACCUAUG G CGUCUGUU	3686	AACAGACG GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	CAUAGGUU	22807
1876	CCUAUUGC G UCUGUUCA	3687	UGAACAGA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	GCCAUAGG	22808
1880	UGGCGUCU G UUCAAAGG	3688	CCUUUGAA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	AGACGCCA	22809
1888	GUUCAAG G CUUUCAAAG	3689	CUUGAAAG GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	CUUUGAAC	22810
1896	GCUTUCAA G UUUCUUGG	3690	CCAGAAAG GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	UUGAAAGC	22811
1912	GGACUCCC G CAGACACA	3691	UGUGUCUG GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	GGGAGUCC	22812
1922	GCACACAG G UCACGGCA	3692	UGCCUGGA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	CUUGUCUU	22813
1928	AGGUCACG G CACUGUGG	3693	CCACAGUG GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	CGUGACCU	22814
1933	ACGGCACU G UGGUGUUG	3694	CAACACCA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	AGUGCCGU	22815
1936	GCACUGUG G UGUUGGAA	3695	UUCCAACA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	CACAGUGC	22816
1938	ACUGUGGU G UUGGAAUU	3696	AAUUCCAA GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	ACCACAGU	22817
1947	UUGGAUUU G CAGUACAC	3697	GUGUACUG GGA GCCGUUAGGC	UCCGUUUAAGGA	GCCGUUAGGC	UCCGGG	AAUUCCAA	22818

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1950	GRAUUGCA G UACACUGG	3698	CCAGUGUA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG UGCAAUUC	22819
1958	GUACACUG G CACGGAUG	3699	CAUCGUG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG CAGUUAUC	22820
1973	UGGACCUU G CAAAGUUC	3700	GAACUUG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG AAGUCCA	22821
1978	CUUGCAA G UUCUAUC	3701	GAUAGGA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG UUGCAAG	22822
1989	CUUAUCUC G UCAGUGGC	3702	GCCACGA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG GAGUAGG	22823
1993	UCUAUCUA G UGGCUUA	3703	UGAAGCA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG UGACAGA	22824
1996	CGUCAGUG G CUUCAUDG	3704	CAUAGAAG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG CACUGACG	22825
2016	GACCUAAC G CCAGUGGG	3705	CCCACUG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG GUUAGGUC	22826
2020	UAACGCCA G UGGGCAGA	3706	UCUGCCA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG UGGGUUA	22827
2024	GCCAGUGG G CAGAUUGG	3707	CCAUUCUG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG CCACUGGC	22828
2032	GCAGAUUG G UCACUGUC	3708	GACAGUGA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG CAAUCUGC	22829
2038	UGGUCACU G UCAACCCU	3709	AGGUUGA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG AGUGACCA	22830
2050	ACCCUUUU G UUCAGUG	3710	CACUAAA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG AAAAGGU	22831
2056	UUGUUUCA G UGGCCAGC	3711	CGUGCCA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG UGAACAA	22832
2059	UUCAGUG G CCACGGCC	3712	GGCCGUG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG CACUGAA	22833
2065	UGGCCAG G CCAACGCU	3713	AGCGUGG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG CGUGGCCA	22834
2071	CGGCCAAC G CUAAGGUC	3714	GACCUAG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG GUUGGCCG	22835
2077	AGCUAAG G UCCUGAUU	3715	AAUCAGGA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG CUUAGGUG	22836
2119	CAUACAUA G UGGUGGC	3716	GCCACCA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG UAGUUAUG	22837
2122	ACUAUGUG G UGGGCAGA	3717	UCUGCCA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG CACUAUGU	22838
2126	AGUGUGG G CAGAGGAG	3718	CUCUCUG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG CCACCACU	22839
2157	CACCAUUG G CACAAGUC	3719	GACUUGUG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG CAAUGGUG	22840
2163	UGGCACAA G UCUGGAAG	3720	CUUCAGA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG UUGUGCCA	22841
2171	GUUGGAA G CAGCAUUG	3721	CAUUCUG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG UUCAGAC	22842
2174	UGGAAGCA G CAUUGGCA	3722	UGCCAAUG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG UGCUUCCA	22843
2180	CAGCAUUG G CAAAGCCU	3723	AGGCUUG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG CAAUGCUG	22844
2185	UUGGCAAA G CCUUUACA	3724	UGUAAAG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG UUGGCCAA	22845
2209	UCAAAGGA G CACAGAGA	3725	UCUCGCG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG UCCUUUGA	22846
2211	AAAGAGG G CAGAGACU	3726	AGUCUCUG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG CUUCUUU	22847
2221	AGAGACUA G CCGCUCUA	3727	UAGAGCG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG UAGUCUCU	22848
2224	GACUAGC G CUCUAGGA	3728	UCCUAGAG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG GGCUAGUC	22849
2239	GAGACACA G CUUGGGAC	3729	GUCCCAAG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG UGUUCUC	22850
2257	UUGGAUCA G UUGGAGGG	3730	CCUCCAA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG UGAUCCAA	22851
2266	UUGGAGG G UGUUCACC	3731	GGUGACA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG CCUCUCAA	22852
2268	GGAGGGU G UUCACCUC	3732	GAGUGAA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG ACCCUC	22853
2278	UACCUCA G UUGGGAAG	3733	CUUCCAA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG UGAGGUGA	22854
2287	UUGGAAG G UGUUCCAU	3734	AUCCAG GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG CUUCCCAA	22855
2290	GGAAGGU G UCCAUCAA	3735	UUGAUGA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG AGCUCUC	22856
2299	UCCAUCAA G UGUUCGGA	3736	UCCGAACA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG UUGAUGGA	22857
2301	CAUCAAGU G UUCGGAGG	3737	CCUCCAA GGA GCGUUUAGGC UCCCUUUAAGGA GCGUUUAGGC UCCGGG ACUUAUG	22858

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2311	UCGGAGGA G CAUUCGCG	3738	GCGAAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUCCGA	22859
2318	AGCAUCC G CUCACUGU	3739	ACAGUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGAUUGCU	22860
2325	CGUCACU G UUCGGAGG	3740	CCUCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGAGCG	22861
2333	GUUCGGAG G CAUGUCCU	3741	AGGACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCGAAC	22862
2337	GAGGCAU G UCCUGGAU	3742	AUCCAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGCCUCC	22863
2349	UGGAUAC G CAAGGAU	3743	AAUCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUAUCCA	22864
2358	CAAGGAU G CUGGGGGC	3744	GCCCCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCCUUG	22865
2365	UUCUGGG G CUCUCCUG	3745	CAGGAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCCAGCA	22866
2373	GCUCUCU G UUGUGGAU	3746	AUCCAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGAGAGC	22867
2376	CUCCUGU G UGGAUGGG	3747	CCCAUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAGGAG	22868
2384	GUGGAUG G CAUCAUG	3748	CAUUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUCCAC	22869
2392	GCAUCAU G CUCUGAU	3749	AUCACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUGAUUC	22870
2396	CAUUGCU G UGAUAGGU	3750	ACUAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGCAUUG	22871
2403	CGUGAUA G UCCAUAGC	3751	GCUAUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUAUCACG	22872
2410	GUUCCAUA G CUCUCACG	3752	CGUGAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUGGACC	22873
2418	GCUCUCAC G UUCUCGCG	3753	GCGAGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGAGAGC	22874
2425	CGUUCUC G CAGUUGGA	3754	UCCAACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGAAACG	22875
2428	UUCUCGCA G UUGGAGGA	3755	UCCUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCGAGAA	22876
2437	UUGGAGGA G UUCUGCUC	3756	GAGCAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUCCAA	22877
2442	GAGUUCU G CUCUCCU	3757	AGGAAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAACUCC	22878
2455	CCGUCUC G UGAACGUG	3758	CACGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGAGAGGA	22879
2461	CCGUACU G UGCACGCU	3759	AGCUGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUCACGG	22880
2463	GUGAACU G CACGCUA	3760	UCAGCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGUUCAC	22881
2467	ACGUGCAC G CUGACACU	3761	AGUGUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGCAGCU	22882
2478	GACACUG G UGUGCCAU	3762	AUGGCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGUUGC	22883
2480	CACUGGU G UGCCAUAG	3763	CUAUGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCCAGUG	22884
2482	CUGGGUG G CCAUAGAC	3764	GUCUADG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACCAG	22885
2495	AGACAUA G CCGGCAAG	3765	CUUGCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAUGUCU	22886
2499	AUCAGCC G CAAGAGCU	3766	AGCUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGCUGAU	22887
2505	CGGCAAG G CUGAGAUG	3767	CAUCUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUGGCG	22888
2513	GUUGAGAU G UGGAUGUG	3768	CACUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUCAGC	22889
2519	AUGUGGA G UGGAGUGU	3769	ACACUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCACAU	22890
2524	GAAGUGA G UGUUCAUA	3770	UAUGACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCACUUC	22891
2526	AGUGGAGU G UUCAUACA	3771	UGUAUNA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCCACU	22892
2542	ACAUAGU G UGAGGCTU	3772	AGCCUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAUUGU	22893
2548	AUGUGGAG G CUUGGADG	3773	CAUCCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCACAU	22894
2562	AUGGACC G UACAAGUA	3774	UACUUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGUCCAU	22895
2568	CGGUACAA G UAUUACCC	3775	GGUAUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUACCG	22896
2583	CTUGAAC G CCACAAG	3776	CCUUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUUCAGG	22897
2591	GCCACAG G CCUAGCCA	3777	UGGCUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGGC	22898

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2596	AAGGCTTA G CCAAGAUC	3778	GAUCUUGG GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG UAGGCCUUC	22899
2614	UUCAGAAA G CUCAUAG	3779	CUUAUGAG GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG UUCUUGAA	22900
2629	AGGAAGGA G UGUGCGGU	3780	ACCGACA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG UCCUUCUUC	22901
2631	GAAGAGU G UCGGUCU	3781	AGACGCA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG ACUCUUC	22902
2633	AGAGAGU G CGUUCUAC	3782	GUAGACG GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG ACACUUC	22903
2636	AGUGUGG G UCUACGAU	3783	AUCGAGA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG CGCACACU	22904
2647	UACGAUCA G UUUCGAGA	3784	UCUGAAA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG UGAUUGUA	22905
2661	AGACUGGA G CAUCAAU	3785	AUUUAUG GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG UCCAGUCU	22906
2670	CAUCAAU G UGGGAAGC	3786	GCUCCCA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG AUUUGAUG	22907
2677	UGUGGAA G CAGUGAAG	3787	CUUCACUG GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG UUCGCCA	22908
2680	GGGAAGCA G UGAAGGAC	3788	GUCCUCA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG UCCUCCU	22909
2691	AAGGACA G CUGAACAC	3789	GUGUUCAG GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG UCGUCCU	22910
2717	GGAGAGU G UGUGGACC	3790	GUCCACA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG CAUUCUCC	22911
2719	AGAAUGU G UGGACCU	3791	AAGGUCA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG ACCAUUCU	22912
2729	GGACCUA G UGUCGUG	3792	CCACGCA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG UAAUGUCC	22913
2731	ACCUAGU G UCGUGGU	3793	AACGAGA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG ACUAAGGU	22914
2734	UUGAGUC G UGGUUGAG	3794	CUCAACA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG GACACUAA	22915
2737	GUGUCUG G UUGAGAAA	3795	UUUCUAA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG CACGACAC	22916
2757	GAGGAAU G UACAAGUC	3796	GACUUGA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG AUUCCUUC	22917
2763	AGUACA G UCAGCAC	3797	GUGUCUG GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG UUGUACAU	22918
2767	ACAAGUA G CACUAAA	3798	UUUAGUG GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG UGACUUGU	22919
2777	ACCURAA G CCUCACG	3799	CGUGAGG GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG GUUUGGU	22920
2785	GCCUCAC G CCACCAG	3800	CGUGGUG GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG GUGAGGC	22921
2810	GGAAUUG G CUGGAAG	3801	CUUCCAG GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG CAUUCUCC	22922
2818	GCUGGAG G CCUGGGGA	3802	UCCCCAG GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG CUUCCAGC	22923
2831	GGAAAGA G UAUUUUAU	3803	AUAAAUA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG UCUUCCU	22924
2842	UUUAUUU G CACCAGAA	3804	UUCUGUG GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG AAUAAAA	22925
2854	CAGAUCU G CCAACAAC	3805	GUUGUUG GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG GAGUUCUG	22926
2869	ACACCUU G UGUUGAU	3806	AUCAACA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG AAAGUGU	22927
2872	CCUUUGU G UUGAUGU	3807	ACCAUAA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG CACAAAGG	22928
2879	GUUGAUG G UCCGGAGA	3808	UCUCCGA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG CAUCAACC	22929
2897	CAAGGAU G UCCGACUC	3809	GAGUCGA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG AUUCUUG	22930
2912	UCAGAAU G CGCUUGA	3810	UCCRACG GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG GAUUCUGA	22931
2914	AGAAUCG G CUUGGAU	3811	AUCCRAA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG GCGAUUCU	22932
2924	UUGGAUA G CUUAGAAG	3812	CUUCUAG GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG UAUUCCAA	22933
2932	GUUAGAA G UGGAGGAU	3813	AUCCUCA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG UUCUAGC	22934
2951	UGGAUUG G UCUACACA	3814	UGUGAGA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG CAAAUCCA	22935
2960	UCUCACCA G CACUCGGA	3815	UCCGAGU GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG UGUGAGGA	22936
2970	ACUCGGAU G UUCUGAA	3816	UUCAGAA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG AUCCAGU	22937
2980	UCCUGAAG G UCAGAGAG	3817	CUCUCUGA GGA GCGUUAAGGC UCCCUCAAGGA GCGUUAAGGC UCCGGG CUUCAGGA	22938

Table VII

2990	CAGAGAGA G CAACACAA	3818	UUGUUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UCUCUCUG	22939
3005	AACUGAAU G UGACUGA	3819	UCGAGUCA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AUUCAGUU	22940
3028	UUGGAACG G CUGUCAAG	3820	CUUGACAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GGUUCCAA	22941
3031	GAACGGCU G UCAAGAAC	3821	GUUCUGA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGCCGUUC	22942
3046	ACAACUUG G CGAUCCAC	3822	GUUGAUC GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CAAGUUGU	22943
3056	GAUCCACA G UGACCTUG	3823	ACAGGUCA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UGUGGAUC	22944
3063	AGUGACCU G UCCUADUG	3824	CAUAAGGA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGGUCAUC	22945
3080	GAUGAAA G CAGGCUCA	3825	UGAGCCUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UUUCAUUC	22946
3084	GAAGCAG G CUCAUGA	3826	UGAUUAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GUGUUUUC	22947
3096	AAUGAUAC G UGGAGCU	3827	AGCUUCCA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GUAUCUUC	22948
3102	ACUGUGAA G CUDGAAAG	3828	CUUUCAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UCCACGU	22949
3112	UUGAAAGG G CAGUUCUG	3829	CAGAACUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCUUUCAA	22950
3115	AAAGGGCA G UUCUGGGU	3830	ACCAGAA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UGCCUUUU	22951
3122	AGUUCUG G UGAAGUCA	3831	UGACUCCA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCAGAACU	22952
3127	UGGUGAA G UCAAAUCA	3832	UGAUTUGA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UUCACCCA	22953
3137	CAAAUCAU G UACGUGGC	3833	GCACAGUA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AUGAUUUG	22954
3141	UGAUUAC G UGGCTUGA	3834	UCAGGCCA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GUACUAGA	22955
3144	UUAAGUAG G CCUGAGAC	3835	GUUCACAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CACUACAA	22956
3153	CCUGAGAC G CAUACCUU	3836	AAGUAUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GUCUCAGG	22957
3162	CAUACCUU G UGGGGCGA	3837	UCCGCCCA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AAGGUUUG	22958
3167	CUUGUGG G CGAUGGAA	3838	UUCCAUC GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCCACAAG	22959
3185	CCUUGAGA G UGACUUGA	3839	UCAAGUCA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UCUCAAGG	22960
3202	UAAUACCA G UCACACUG	3840	CAGUGUGA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UGGUAUUA	22961
3211	UCACACUG G CGGGACCA	3841	UGGUCCCG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CAGUGUGA	22962
3224	ACCACGAA G CAUACACA	3842	UGUGAUUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UUCGUGGU	22963
3246	AGACCTUG G UACACAGC	3843	GUUUGUA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCAGGUUU	22964
3266	AAACCAGG G CCAUGGG	3844	CCCAUGGG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCUGGUUU	22965
3281	GGACGAG G CCGGUUAG	3845	CUACCCGG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CUUCGUCC	22966
3286	AAGGCCG G UAGAGAUU	3846	AAUCUCUA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCGGCCUU	22967
3308	CGAUUACU G CCCAGGAA	3847	UUCCUGGG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGUAUUCG	22968
3322	GAACUACG G UCACCCUG	3848	CAGGGUGA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CGUAGUUC	22969
3332	CACCCUGA G UGAGAGCU	3849	AGUCUCUA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UCAGGUUG	22970
3338	GAGUGAGA G CUGGGGAC	3850	GUCCGACG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UCUACUUC	22971
3341	UGAGAGCU G CGGACACC	3851	GGUGUCCG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGCUCUCA	22972
3350	CGGACACC G UGACCCUG	3852	CAGGUCCA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GGUGUCCG	22973
3358	GUGACCU G CCACUCGC	3853	GGAGUGG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGGUCCAC	22974
3365	UGCCACUC G CACCACCA	3854	UGGUGUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GAGUGGCA	22975
3380	CACAGAGA G CGGAAAGU	3855	ACUUCUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UCUCUGUG	22976
3387	AGCGGAAA G UUGAUUAC	3856	GUUAUCAA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UUUCCGCU	22977
3402	ACAGAUUG G UGCVGCAG	3857	CUGCAGCA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CAUUCUGU	22978

Table VII

3404	AGAUUGG G CUGACGGA	3858	UCCUGCAG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG ACCAAUCU	22979
3407	UUGUGUCU G CAGGAGCU	3859	AGCUCCUG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGCACCA	22980
3413	CUGCAGGA G CUGCACCU	3860	AGGUGCAG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UCCUGCAG	22981
3416	CAGGAGCU G CACCUUAC	3861	GUAAAGUG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGCUCUCG	22982
3432	CCACACU G CGUACCA	3862	UGGUAGCG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGUGUGG	22983
3434	ACACUCG G CUACCAA	3863	UUUGGUAG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GCAGUGGU	22984
3449	AACUGACA G CGCUGU	3864	AACAGCG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UGUCAGUU	22985
3452	UGACAGCG G CUGUUGU	3865	ACCAACAG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CGCUGUCA	22986
3455	CAGCGGCU G UUGGUAUG	3866	CAUACCAA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGCCGCUG	22987
3459	GGCUGUUG G UAUGGUAU	3867	AUACCAUA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CAACAGCC	22988
3464	UUGGUAUG G UAUGGAGA	3868	UCUCCAUA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CAUACCA	22989
3505	AGACCCUC G UGCAGUCA	3869	UGACUGCA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GAGGGUCU	22990
3507	ACCUCUGU G CAGUCACA	3870	UGUGACUG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG ACAGGGU	22991
3510	CUCUGUCA G UCACAAGU	3871	ACUUGUA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UGCACGAG	22992
3517	AGUCACAA G UGAUGCU	3872	AGCAUUA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UUGUGACU	22993
3523	AAGUGAAU G CUUAUAU	3873	AUAUAAG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AUUCACUU	22994
3532	CUUAUAU G CUGAUAUG	3874	CAUAUCAG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG ADUAUAAG	22995
3555	CUUUUCA G UUGGGCCU	3875	AGGCCAA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UGAAAGG	22996
3560	UCAGUUG G CUCUUGG	3876	CCAGAAG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCAACUGA	22997
3568	GCCUUCUG G UCGUGUUC	3877	GAAACGA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CAGAAGGC	22998
3571	UUCUGGUC G UGUUCUUG	3878	CAAGACA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GACCAGAA	22999
3573	CUGUGUGU G UUCUUGGC	3879	CCAGAA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGCACCA	23000
3580	UGUUCUG G CCACCCAG	3880	CUGGGUG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CAAGAACA	23001
3592	CCAGAGG G UCCUUCGC	3881	GCGAAGA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CUCUCUGG	23002
3599	GGUCCUUC G CAGAGGU	3882	ACCUCUG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GAAAGACC	23003
3606	CGCAGAG G UGCACAGC	3883	GCUGUCA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CUCUUGCG	23004
3613	GGUGACA G CCAAGAU	3884	GAUCUUG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UGUCCACC	23005
3623	CAAGAUCA G CAUGCCAG	3885	CUGGCAUG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UGAUCUUG	23006
3627	AUCAGCAU G CCAGCUAU	3886	AUAGCUG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AUGCUGAU	23007
3631	GCAUGCCA G CUUAUCUG	3887	CAGUAUAG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UGGCAUGC	23008
3643	UACUGAUU G CUCUGCUA	3888	UAGCAGAG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AAUCAGUA	23009
3648	AUUGUCU G CUAGUCCU	3889	AGGACUAG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGAGCAAU	23010
3652	CUCUGCUA G UCCUGGUG	3890	CACCAAGA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UAGCAGAG	23011
3658	UAGUCCUG G UGUUUGGG	3891	CCCAACA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CAGGACUA	23012
3660	GUCCUGGU G UUGGGGG	3892	CCCCCAA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG ACCAGGAC	23013
3668	GUUUGGG G CAUUAUU	3893	AAGUAUG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCCCAC	23014
3685	ACACUGAU G UGUUACGC	3894	GCUGACA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AUCAGUGU	23015
3687	ACUGAUGU G UUAGGCUA	3895	UAGCGUA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG ACAUCAGU	23016
3692	UGUGUUAU G CUUAUGUA	3896	UGACAUAG GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GUACACA	23017
3697	UACGCUAU G UCAUCUUG	3897	CAAGAUA GGA GCGGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AUAGCGUA	23018

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3706	UCAUCUG G UGGGGCA	3898	UGCCCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGAUGA	23019
3712	UGUGGGG G CAGCUUC	3899	GAAGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCCACCA	23020
3715	UGGGGCA G CUUGGCA	3900	UGCGAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCCCCA	23021
3721	CAGCUUC G CAGAUCU	3901	AGAUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAAAGCUG	23022
3745	GAGAGAC G UGGUACAC	3902	GUGUACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUCUCCUC	23023
3748	GAGAGUG G UACACUUG	3903	CAAGUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACGUCUC	23024
3757	UACACUG G CGCUAUG	3904	CAUGAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUGA	23025
3759	CAGUUGC G CUCAUUGC	3905	GCCAUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCAAGUG	23026
3766	CGCUAUG G GACCCUUC	3906	GAAGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUAGCG	23027
3787	UACACCA G UGUUAUG	3907	CAUAAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUGUA	23028
3789	CAACAGU G UUAUGGU	3908	ACCAUAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGGUUG	23029
3796	UGUUAUG G UGGCAUCG	3909	CGAUGCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUAAACA	23030
3799	UUAUGUG G CAUCGUUU	3910	AAAGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACCAUAA	23031
3804	GUGCAUC G UUCUCUAA	3911	UUGAGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUGCCAC	23032
3814	UUCUCAA G CGAGAUGG	3912	CCAUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAGAA	23033
3843	AACAUAU G UGAUGUU	3913	AACAUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAAUGU	23034
3849	UGUUGAU G UUGGGGC	3914	GCCGCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAACAA	23035
3853	UGAUGUG G CGGUGUU	3915	AACAGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACAUA	23036
3856	UGUUGGC G CUGUUUUC	3916	GAACAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCCAACA	23037
3859	UGGCGGU G UUUUCUU	3917	AAAGAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCGCCA	23038
3874	UUCAAUG G CUUAUCAC	3918	GUGAUAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUUGAA	23039
3886	AUCAGAU G CCCGCCAA	3919	UUGGCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUGAU	23040
3890	CGAUGCC G CCAAAUUC	3920	GAUUUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGCAUCG	23041
3900	CAAAUUCU G CUCUGGGA	3921	UCCAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAAUUUG	23042
3919	UCCUGAU G UGUUGAU	3922	AUUAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAGGA	23043
3921	CCUGAUG G UUGAAUUC	3923	GAUAUAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUCAGG	23044
3934	AUUCACUG G CGUAGCU	3924	AGUAACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUGAU	23045
3937	CACUGCG G UAGCUUGG	3925	CCAAGCUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCCAGUG	23046
3940	UGGCGGUA G CUUGGAUG	3926	CAUCCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACCGCCA	23047
3958	UACUGAG G CCAURACA	3927	UGUAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUAGUA	23048
3985	CAUCAAC G UGUUGUU	3928	AACAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUUGAUG	23049
3988	CAAAACUG G UUGUCCG	3929	CGGAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUUUG	23050
3991	ACUGGUG G UUCGCGU	3930	CAGGGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACCACGU	23051
3996	GUUGUCC G CUGCUAG	3931	GUAGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGAACAAAC	23052
3999	GUUCGCU G CUAGCCU	3932	AGGCUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCGAAC	23053
4003	CGUGCUA G CCCUGCUA	3933	UAGCAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGCAGG	23054
4008	CUAGCCU G CUACACC	3934	GGUUAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGGCUAG	23055
4020	ACACCGG G CUGAGAU	3935	CAUCACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGGGUGU	23056
4028	GCUGAGU G CUUGAAUC	3936	GAUCAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUCAGC	23057
4042	AUCUGAU G UGUACAGG	3937	CCUGUACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCAGAU	23058

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4044	CUUGAUU G UACAGAU	3938	AUCCUGA GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	ACAUCCAG	23059
4056	AGGAUACU G CUGUUAU	3939	AUCAACAG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	AGUAUCCU	23060
4059	AUACUGU G UUGAUUU	3940	ACCAUCAA GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	AGCAGUAU	23061
4066	UGUUGAU G UCGGAUA	3941	UAUCCGA GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	CAUCAACA	23062
4076	CGGAUAG G CAGUUGA	3942	UACAGUG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	CUAUUCCG	23063
4079	AUAAGGA G CUUGAUA	3943	UGAUAAG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	UGCCUAUU	23064
4100	GAAGAGA G UGCAGUG	3944	CAGCUGCA GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	UCCUUCU	23065
4102	AGAGGAGU G CAGCUGA	3945	UUUUGCG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	UCCUUCU	23066
4105	GGAGUGA G CUGCAAA	3946	UUUUGCG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	UCCUUCU	23067
4108	GUGCAGU G CAAAAAG	3947	CUUUUUG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	AGCUGCAC	23068
4123	AGAAAGA G CAAGUCU	3948	CAGACUG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	UCCUUCU	23069
4127	AGGAGCAA G UCUGUAU	3949	AUAGCAGA GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	UCCUUCU	23070
4131	GCAAGUCU G CUAUGCU	3950	AAGCAUAG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	AGACUUGC	23071
4136	UCUGCUAU G CUUGGUC	3951	GAGCCAAG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	AUAGCAGA	23072
4141	UAUGCUUG G CUCUAGC	3952	GGCUAGAG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	CAAGCAUA	23073
4147	UGGCUCUA G CCUCACA	3953	UGUUGAGG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	UAGAGCCA	23074
4180	UGAUCCUU G CUGUGGA	3954	UCCAGCAG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	AAGGAUCA	23075
4183	UCCUUCU G CUGGACU	3955	CAGUCCAG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	AGCAAGGA	23076
4195	GACTUGAU G CAUGUAU	3956	AUCAUUG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	AUACAGUC	23077
4199	GAUTGCAU G UGAUCCA	3957	UGGGAUCA GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	AUGCAUUC	23078
4211	UCCCAACC G UAAACGG	3958	CGGUUUA GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	GGUUGGGA	23079
4217	CCGUAAAC G CGGAUGC	3959	GCCAUCCG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	GUUACCG	23080
4224	CGCGGAUG G CCGCAAC	3960	GUUGGGG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	CAUCCGG	23081
4228	GAUGGCC G CAACUGAA	3961	UUCAGUUG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	GGGCCAUC	23082
4237	CAACUGAA G UGAUGACA	3962	UGUCAUCA GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	UUCAGUUG	23083
4246	UGACAGU G UGUGGCUA	3963	GCCGACAG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	UGUCAUCA	23084
4249	UGACAGU G UGUGGCUA	3964	UAGGCCGA GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	AGCUGUCA	23085
4253	AGCUGUC G CCUAUUGU	3965	ACAUUAGG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	CGACAGCU	23086
4260	GGCCUAAU G UUUGCCAU	3966	AUGGCAAA GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	AUUAAGCC	23087
4264	UAUUGUUU G CCAUCGUC	3967	GACGAUUG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	AAACAUA	23088
4270	UUGCCAU G UCGGAGG	3968	CCUCCGA GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	GAUGGCAA	23089
4278	GUGGAGG G CUGGCAGA	3969	UCUGCCAG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	CTUCCGAC	23090
4282	GAGGCGU G CAGAGCUU	3970	AAGCTUC GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	CAGCCUC	23091
4287	CUUGCAGA G CUUGACAU	3971	AUGUCAAG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	UCUGCCAG	23092
4306	ACUCCAU G CCAUCCA	3972	UGGAUUG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	CAUGAGU	23093
4324	UGACUUAU G CCGGGCUC	3973	GAGCCCG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	GAUAGUCA	23094
4329	AUGCGGG G CUAUGUU	3974	AACAUGAG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	CCCGCAU	23095
4335	GGCUCAU G UUUGCUG	3975	GCAGCAAA GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	AUGAGCCC	23096
4339	UCAUGUU G CUGCUUC	3976	GAAGCAG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	AAACAUA	23097
4342	UGUUGCU G CUUUCUG	3977	CACGAAG GGA GCGUUAGG	UCCUUCAGGA	GCCGUUAGG	UCCGG	AGCAACA	23098

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4348	CUGCUUUC G UGAUUUCU	3978	AGAAAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAAAGCAG	23099
4374	ACAGAAU G UGAUUUGA	3979	UCAAUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUAUCUGU	23100
4390	AGAGACG G CGACAUU	3980	AAUGUCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGUUCUCU	23101
4409	CUGGAAA G UGAUGCAG	3981	CUGCAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCCGAG	23102
4414	AAAGUGAU G CAGAAAUU	3982	AAUUUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCACUUU	23103
4427	AUAUACG G CUGAGCG	3983	CUCUCUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGUAAUU	23104
4433	AGGCUCA G CGAAGAG	3984	CUUUUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGAGCCU	23105
4441	GCAGAGA G UUGAUGUG	3985	CACAUCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUUGCG	23106
4447	GAGUGAU G UGCGCUU	3986	AAGCCGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAACUC	23107
4449	GUUGAUG G CGGCUUGA	3987	UCAAGCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUCAAC	23108
4452	GAUGGCG G CUUGAUGA	3988	UCAUCAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCACAUU	23109
4476	AACUCCA G CUCAUGAA	3989	UUAUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGAAGUU	23110
4495	AUCCAGG G CACCUUGG	3990	CCAAGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUGGAAU	23111
4515	AUAUGAU G CUCAGAAU	3991	AUUCUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCAUAU	23112
4525	UCAGAAU G UCUGUCUC	3992	GAGACAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUCUGA	23113
4529	AAUGUCU G UCUCGCGA	3993	UCGCGAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGACCAUU	23114
4534	UCUGUCUC G CGAUUAGU	3994	ACUAAUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGACAGA	23115
4541	CGCAUUA G UGCGUACA	3995	UGUACGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAAUCGCG	23116
4543	CGAUUAG G CGUACACC	3996	GGUGUACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUAAUCG	23117
4545	AUAUGUC G UACACCCC	3997	GGGUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCACUAAU	23118
4558	CCCCUGG G CAUUCUUG	3998	CAAGAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGGGGG	23119
4566	GCAUCUU G CCUCUAGU	3999	ACUAGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGAUUGC	23120
4573	UGCCCUCA G UAUUGGA	4000	UCCAACUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAGGGCA	23121
4576	CCUCAGUA G UUGGAUUA	4001	AAAUCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACUGAGG	23122
4616	GAGAGGAG G CGUGUUGU	4002	ACAACACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCUCUC	23123
4618	GAGAGGC G UGUUGUGG	4003	CCACAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCUCCUC	23124
4620	GGAGGCGU G UUGUGGGA	4004	UCCACACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCUCC	23125
4623	GGCGUGU G UGGACAC	4005	GUUCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACACGCC	23126
4647	CCAAAGGA G UACAAAAA	4006	UUUUUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUUUGG	23127
4673	GACACCG G CGUCUACA	4007	UGUAGACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGUGUC	23128
4675	CCACGGC G UCUCACAG	4008	CCUUGAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCGGUGG	23129
4694	CAUGACUC G UGGGCUUC	4009	GCAGCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGUCAUG	23130
4698	ACUGGUG G CUGCUCGG	4010	CCGAGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCACGAGU	23131
4701	CGUGGGCU G CUCGGCAG	4011	CUGCCGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCACAG	23132
4706	GCUGCUC G CAGUUAUC	4012	GAUAACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAGCAGC	23133
4709	GCUCGGCA G UUAUCAAG	4013	CUUGAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCGGAGC	23134
4717	GUUAUCA G CAGAGCG	4014	CGCUCCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAUUAC	23135
4723	AAGCAGG G CGGCGGUG	4015	CGGCCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUGCUU	23136
4727	AGAGGCG G CGUGAUGG	4016	CCAUCACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCUCUCU	23137
4729	GAGCGGC G UGAUGGUU	4017	AACCAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCCGCUC	23138

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4735	GCUGAUG G UUGAAGG	4018	ACCUCAA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG CAUCAGC	23139
4742	GGUUGAG G UGUUUCC	4019	GGAAACA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG CUUCAAC	23140
4744	UUGAAGG G UUUUCCAC	4020	GUGGAAG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG ACCUCAA	23141
4761	ACCUUUG G CAUACAAC	4021	GUUGAUG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG CARAGGU	23142
4777	CAAAAGGA G CCGCUUUG	4022	CAAGCGG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG UCCUUUG	23143
4780	AAGAGCC G CUUUGAUG	4023	CAUAAAG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG GGUCCUU	23144
4790	UUUGAUG G CGGAGAG	4024	CCUUCGG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG UCAUCAA	23145
4799	CGGAGAG G CCGCCUGG	4025	CGAGCGG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG CCUCUCG	23146
4802	AGAGGGC G CCUGGACC	4026	GUUCCAG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG GGCUCUC	23147
4820	AUACUGG G CAGUGUCA	4027	UGACACUG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG CCCAGUAU	23148
4823	UUGGGCA G UGUCAAG	4028	CUUGACA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG UGCCCG	23149
4825	GGGCAGU G UCAAGGAG	4029	CUCCUGA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG ACUGCCC	23150
4844	UCGACUU G UUACGGAG	4030	CUCCGUA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG AAAGUGA	23151
4866	UGGAAUU G CAGACAA	4031	UUGUGUG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG AAUUCGA	23152
4869	AAAUUGA G CACAAGU	4032	CACUUGG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG UGCAAUU	23153
4875	CAGACAA G UGGAACGG	4033	CGUUGCA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG UUGUGUG	23154
4884	UGGAACG G CAGGAUGA	4034	UCAUCCG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG CCGUCCA	23155
4894	AGGAUG G UGCAGAUG	4035	CAUCUGA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG CUCAUCCU	23156
4896	GAUGAGG G CAGAUAU	4036	AUCAUCG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG ACCUCAUC	23157
4906	AGAUAU G UGUUGGA	4037	UCCACCA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG AAUCAUCU	23158
4909	UGAUUG G UGGAACCU	4038	AGGUUCA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG CACAUCA	23159
4919	GGAACUG G CAAGAAG	4039	GUUCUUG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG CAGGUUC	23160
4927	GAAGAAC G UUAAGAAC	4040	GUUCUUA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG GUUCUUG	23161
4936	UUAAGAAC G UCCAGAG	4041	CGUCUGA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG GUUCUUA	23162
4954	AACAGGG G UGUUCAA	4042	UUUGAUA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG CCCUGGU	23163
4956	CAAGGGG G UUCAAAAC	4043	GUUUGAA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG ACCCUGG	23164
4984	AAUUGGG G CCGUGACU	4044	AGUCACG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG CCGAUUU	23165
4987	UCGGGCC G UGACUUG	4045	CAAGUCA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG GGCCTCGA	23166
5018	AACAUCAG G CUACACAA	4046	UUGGUGAG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG CUGAUGU	23167
5029	CACCAUA G UGACAAA	4047	UUUGUCA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG UAUUGUG	23168
5042	CAAAACG G UGAUGUA	4048	UCACAUA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG GGUUUG	23169
5047	ACGUGAU G UGAUUGG	4049	CCCAUA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG AUCACCGU	23170
5055	GUGAUGG G CUUUAUG	4050	CCAUAAG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG CCAUAC	23171
5063	GUUUAUG G CAUUGGAG	4051	CUCCAUG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG CAUAAAGC	23172
5071	GCAUGGA G UCAUAUG	4052	CAUAUA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG UCCAUUGC	23173
5079	GUCAUAU G CCAACCG	4053	CGUUGG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG AUUAUGAC	23174
5087	GCCAACG G CUCAUACA	4054	UGUAUG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG CGUUGGC	23175
5099	AUAUAA G CGCAUAG	4055	CUAUGG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG UUAUGUAU	23176
5101	ACUAAGC G CGAUGUG	4056	CACUAUG GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG GCUUAUGU	23177
5107	GCUGAUA G UGCAGGGU	4057	ACCCUGA GGA GCCGUUAGG	UCCCUUCAAGGA	GCCGUUAGG	UCCGG UAUCGCG	23178

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5109	GCGAUGU G CAGGGUGA	4058	UACCCUUG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG ACUAUCGC	23179
5114	AGUCGAG G UGAAGGA	4059	UCCUUUA GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCUGCACU	23180
5130	AUGAUGA G CCAUCC	4060	GGAUUGG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UCAUCCAU	23181
5140	CAUCCCA G CCGAUUC	4061	GAAUCCG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UGGGAUUG	23182
5160	CCUGAGU G CUGAGGA	4062	UUCUCAG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AUCUACAG	23183
5182	AUCCACU G UACUGGAU	4063	AUCCACU GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGUGAUCU	23184
5201	CAUCCCG G CCGGUA	4064	UACCGGG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCGGAUGG	23185
5203	AUCCCGG G CCGUAAA	4065	UUUACCG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GCCGGGAU	23186
5207	CGCGCCG G UAAACAA	4066	UUGUUUA GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCGGCCCG	23187
5226	AGAUUCU G CCACAGAU	4067	AUCUGGG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGAAUCCU	23188
5245	UCAAGAG G CCAUAAAC	4068	GUUAUUG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CUCUUDGA	23189
5269	UGAAGCA G CCGUGCUA	4069	UAGCACG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UGUUCUCA	23190
5272	GAACAGC G UGCUAGCA	4070	UGCUGCA GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GCGUUCU	23191
5274	ACAGCCG G CUAGCACC	4071	GGUGCUAG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGCGUCGU	23192
5278	CCUGCUA G CACCAACC	4072	GGUGGUG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UAGCACGG	23193
5290	CAACAGG G UUGUGGU	4073	AGCCACA GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCUGGUG	23194
5293	CCAGGGU G UGGUGGU	4074	AGCAGCA GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AACCCUGG	23195
5296	GGUUGUG G CUGCUGAG	4075	CUAGCAG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CACAACCC	23196
5299	UUGUGGU G CUGAGAUG	4076	CAUCUCAG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGCCACAA	23197
5308	CUGAGUG G CUGAAGCA	4077	UGCUCAG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CAUCUCAG	23198
5314	UGGUGAA G CACUGAGA	4078	UUCACAG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UUCAGCCA	23199
5328	AGAGGACU G CCAUCCG	4079	CGAUGGG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGUCCUCU	23200
5337	CCAUCG G CACAGAC	4080	GUUGGUA GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CGGAUGGG	23201
5350	AGAUCC G UAGGCC	4081	GGGCACU GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GGAUGUCU	23202
5353	CAUCCGCA G UGCCAGA	4082	UCUGGGCA GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UCGGGAUG	23203
5355	UCCGAGU G CCGAGAGA	4083	UCUCUGG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG ACUGCGGA	23204
5383	AUGAGAU G UUGAUGUC	4084	GACAUCA GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AAUCUCAU	23205
5389	UUGUUGAU G UCAUGUGU	4085	ACACAUGA GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AUCAACAA	23206
5394	GAUGUCAU G UGUCAUGC	4086	GCAUGACA GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AUGACAUC	23207
5396	UGUCAUGU G UCAUGCUA	4087	UAGCAUGA GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AUAUGACA	23208
5401	UGUGUCAU G CUACCCUC	4088	GAGGUGAG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AUGACACA	23209
5418	ACCCACAG G CUGAUGUC	4089	GACAUCAG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CUGUGGUG	23210
5424	AGGUGAU G UCUCUCA	4090	UGAGGAGA GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AUCAGCCU	23211
5437	CUACAGG G UGCGAAC	4091	GUUCGGCA GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCUGUGAG	23212
5439	CACAGGU G CCGACUA	4092	UAGUCCG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG ACCCUGUG	23213
5454	UACAACCU G UUCUGAU	4093	AUCACGAA GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGGUUGUA	23214
5458	ACUGUUC G UGAUGGAU	4094	AUCCAUCA GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GAACAGGU	23215
5470	UGAUGAG G CUCAUUUC	4095	GAAUAGAG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CUGAUCCA	23216
5488	CCGACCCA G CUAGCAUU	4096	AAUGUAG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UGGGUGCG	23217
5492	CCAGCUA G CAUUGCAG	4097	CUGCAUG GGA GCCGUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UAGCUGGG	23218

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5497	CUAGCAU G CAGCAAGA	4098	UCUUGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AAUGCUG	23219
5500	GCAUUGCA G CAAGAGGU	4099	ACCUCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGCAUUGC	23220
5507	AGCAAGAG G UUAUAUUU	4100	AAAUUGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CUCUUGCU	23221
5524	CCACAAAG G UCGAGCUA	4101	UAGUCUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CUCUUGGG	23222
5529	AAGGUCGA G CUAGGGGA	4102	UCCCUUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCGACCUU	23223
5539	UAGGGGAG G CGCGGGCA	4103	UGCCGCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCUCUUA	23224
5542	GGAGGGCG G CGGCAUAU	4104	UAUUGCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCGCCUCC	23225
5545	AGGGGGCG G CAUAUUC	4105	GAUAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCGCCGCU	23226
5560	UCAUGACA G CCACCCCA	4106	UGGGGUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGUCADGA	23227
5573	CCCAACAG G CACUUCAG	4107	CUGAAGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CUGGUGGG	23228
5595	UUCACGA G UCCAAUUC	4108	GAUAUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCUGGANA	23229
5641	CGGAUGCA G CUUGGAAC	4109	GUUCCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCGAUCCG	23230
5689	GGAGACG G UUGGUUU	4110	AAACCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GGUUUC	23231
5694	ACGGUUG G UUGUGCC	4111	GGCACA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CAACCGU	23232
5698	UUUGUUU G UGCUVAGU	4112	ACUAGGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AAACCAA	23233
5700	UGGUUUG G CUAACAC	4113	ACUAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACAACCA	23234
5705	UGUGCCUA G UGUCAAGA	4114	UCUUGACA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UAGGCACA	23235
5707	UGCUVAGU G UCAAGAUG	4115	CAUCUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACUAGGCA	23236
5728	AUGAGAU G CUCUUGC	4116	GCAAGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AAUCUCAU	23237
5735	UGCCUUU G CUAACAC	4117	GUUGUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AAAGGCA	23238
5744	CUACAAAC G UGCUGBAA	4118	UUCACAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GUUGUAGG	23239
5746	UAACAAGU G CUGGAAG	4119	CUUCCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGUUGUA	23240
5758	GAGAGAA G UAGUCCAA	4120	UUGGACUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UUCUUDUC	23241
5761	AGAAAGUA G UCCAAUUG	4121	CAAUUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UACUUCU	23242
5778	AACAGAA G UCGUACGA	4122	UCGUACGA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UUCUGUU	23243
5781	AGAAAGUC G UACGAGAC	4123	GUUCUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GACUUCU	23244
5793	GAGACGGA G UACCCAAA	4124	UUUGGGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCCGUCUC	23245
5804	CCCAAAU G UAAGAACG	4125	CGUUCUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUUUUGGG	23246
5827	GGACUUU G UUAUCACA	4126	UGUGAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AAAGUCCC	23247
5857	AAUUGGG G CUAACUUC	4127	GAGUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CCCCACUU	23248
5869	ACUUCAG G CGAGCAGG	4128	CCUGCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CUUGAAGU	23249
5873	CAAGGCGA G CAGGGUGA	4129	UCACCCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCGCCUUG	23250
5878	CGAGCAGG G UGAUUGAC	4130	GUCAUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CCUGCUCG	23251
5888	GAUUGACA G CCGAAGA	4131	UCUCCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGUCAUUC	23252
5897	CCGAAGA G UGUAAAC	4132	GUUUCACA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCUCUCCG	23253
5899	GAAGAGU G UGAACCA	4133	UGGUUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACUCUCC	23254
5935	AAGGGAGA G UGAUCCUG	4134	CAGGAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCUCUCCU	23255
5956	AACCAUCU G CAGUGACA	4135	UGUACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGAUGGUU	23256
5959	CAUCUGCA G UGACAGCA	4136	UGUGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGCAGAUU	23257
5965	CAGUGACA G CAGCUAGU	4137	ACUAGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGUACUUG	23258

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5968	UGACAGCA G CUGAGGCC	4138	GGCACUAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGCUGUCA	23259
5972	AGCAGCUA G UGCGGCC	4139	GGCGGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UAGCUGCU	23260
5974	CAGCUAG G CCGCCAG	4140	CUGGGCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACUAGCUG	23261
5977	CUGAGGCC G CCGAGGA	4141	UCUCUGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GGCACUAG	23262
5987	CGAGAGC G UGACGGUA	4142	UACGUCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GUCUCUGG	23263
5993	ACUGGAC G UAUGGUA	4143	UACCGAUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GUCCAGCU	23264
5999	ACGUACG G UAGAAUC	4144	GAUUCUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CGAUACGU	23265
6009	AGAAUCC G UCGAAGU	4145	ACUUGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GGAUUCU	23266
6012	AAUCCGUC G CAAAGUUG	4146	CAAACUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GACGGAUU	23267
6016	CGUGCAA G UUGGUAU	4147	AUCACCAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUGCGACG	23268
6020	GCAAGUUG G UGAUGAGU	4148	ACUCAUCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAACUUGC	23269
6027	GGGAUGA G UACUGUUA	4149	UAAACAGUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCAUCACC	23270
6032	UGAGUACU G UUAUGGGG	4150	CCCCAUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGUACUCA	23271
6042	UAUGGGG G CACACGAA	4151	UUCUGUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCCCNUA	23272
6070	CGAACUUC G CCAUUGG	4152	CCAAUGGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GAAGUUCG	23273
6085	GGACUGAG G CACGAUUC	4153	GAUUCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCAGUCC	23274
6096	CGAAUACU G CUGGACAA	4154	UUGUCCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUGAUUCG	23275
6114	AUCAACAU G CCAACGG	4155	CGUUGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUGUUGAU	23276
6130	GACUGAUC G CUCAAUUC	4156	GAUUGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GAUCAGUC	23277
6150	CAACAGA G CGUGAGAA	4157	UUCUCACG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCUGGUUG	23278
6152	ACCAGAGC G UGAGAAGG	4158	CUUCUCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GCUCUGGU	23279
6160	GUGAGAAG G UAUUAACC	4159	GGUAUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUUCUCAC	23280
6186	GAUACCG G CUCAGAGG	4160	CCUCUGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CGGUUATC	23281
6222	CUGGAACU G UUGAGGAC	4161	GUCCUCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGUUCGAG	23282
6232	UGAGGACU G CAGAUCUG	4162	CAGAUCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGUCCUCA	23283
6240	GCAGAUCU G CCAGUUG	4163	CAAACUGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGAUCUGC	23284
6244	AUCUGCCA G UUUGGCUG	4164	CAGCCAAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGGCAGAU	23285
6249	CCAGUUG G CUGGCUUA	4165	UAAGCCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAAACUGG	23286
6253	UUUGGCUG G CUUACAAG	4166	CUUGUAAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAGCCAAA	23287
6262	CUUACAAG G UUGCAGCG	4167	CGCUGCAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUUGUAG	23288
6265	ACAAGGUU G CAGCGGCU	4168	AGCCGGUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AACCUUGU	23289
6268	AGGUTUGCA G CCGCUGGA	4169	UCCAGCCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGCAACCU	23290
6271	UUGCAGCG G CUGGAGUG	4170	CACUCCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CGCUGCAA	23291
6277	CGCUGGA G UGUCAUAC	4171	GUUAGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCAGCGG	23292
6279	GCUGGAGU G UCAUACCA	4172	UGGUADA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACUCGAGC	23293
6297	GACCGGAG G UGGUGCUU	4173	AAGACCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCCGUC	23294
6300	CGAGGAGU G UGUUUGA	4174	UCAAGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CACCUCCG	23295
6302	GAGGUGU G CUUUGAUG	4175	CAUCAAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACCACUUC	23296
6311	CUUUGAUG G UCCUAGGA	4176	UCCUAGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAUCAAAG	23297
6349	ACAACGAA G UGAAGUC	4177	GACUCCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUCGUGU	23298

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6355	AAGUGAA G UCAUACG	4178	CGUGAUGA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UCCACU	23299
6366	AUCACGAA G CUUGUGA	4179	UCACCAAG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UUCGUGAU	23300
6371	GAAGCUUG G UGAAGA	4180	UCCUUCA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG CRAAGCUUC	23301
6390	AUUCUGAG G CCGCGUG	4181	CAGGCGG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG CUAGAAU	23302
6393	CUGAGGCC G CGCUGAU	4182	AUCCAGG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG GCGCUCAG	23303
6395	GAGGCGC G CUGGAUG	4183	CRAUCCAG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG GCGGCCUC	23304
6406	GGAUUGAC G CCGAGGUG	4184	CACCUUG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG GUCAAUCC	23305
6412	ACGCCAGG G UGUACUG	4185	CGAGUACA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG CGUGCGU	23306
6414	GCCAGGGU G UACUCGGA	4186	UCCGAGUA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG ACCUGGC	23307
6430	AUCACGAG G CACUAAAG	4187	CUUUGUG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG CUGGUGAU	23308
6439	CACUAAAG G CGUUAAG	4188	CUUGAACG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG CUUUGUG	23309
6441	CUAAAGGC G UUCAAGGA	4189	UCCUUGAA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG GCGUUAAG	23310
6454	AGGACUUC G CCUCGGGA	4190	UCCCGAGG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG GAAAGUCCU	23311
6467	GGGAAAC G UUCUCAGA	4191	UCUGAGAA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG GUUUUCCC	23312
6480	CAGAUAGG G CUCAUUGA	4192	UCAAUGAG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG CCUAUCUG	23313
6490	UCAUUGAG G UUCUGGGA	4193	UCCACGAA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG CUCAUUGA	23314
6504	GAAAGAU G CCUGAGCA	4194	UGCUCAGG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG AUCUUUCC	23315
6510	AUGCCUGA G CACUUCAU	4195	AUGAAGUG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UCAGGCAU	23316
6535	CAUGGAA G CACUUGAC	4196	GUCUAGUG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UUCUCAUG	23317
6549	GACACAU G UACGUUGU	4197	ACAACGUA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG AUGGUGUC	23318
6553	CCAUGUAC G UUGUGGCC	4198	GGCCACAA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG GUAUUGG	23319
6556	UGUACGU G UGGCCACU	4199	AGUGGCCA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG AACGUACA	23320
6559	ACGUUGUG G CCACUGCA	4200	UGCAGUGG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG CACACGU	23321
6555	UGGCCACU G CAGAGAA	4201	UUUCUCUG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG AGUGGCCA	23322
6583	GAGGAGA G CUCACAGA	4202	UCUGUGAG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UCUUCCUC	23323
6595	ACAGAAUG G CCCUGGAG	4203	CUCCAGGG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG CAUUCUGU	23324
6609	GAGGAACU G CCAGADGC	4204	GCAUCUGG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG AGUUCUUC	23325
6616	UGCCAGAU G CUCUUCAG	4205	CUAAGAGG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG AUCUGGCA	23326
6631	AGACAAU G CCUUGAUU	4206	AAUCAAGG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG AAUUGUCU	23327
6640	CCUUGAU G CCUUAUG	4207	CAAUAAAG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG AUCAAGG	23328
6650	CUUAUUGA G UGUGAUGA	4208	UCAUACA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UCAUUAAG	23329
6652	UAUUGAGU G UGAUGACC	4209	GGUCAUCA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG ACUCAAUA	23330
6667	CAUUGGGA G UAUCUUC	4210	GAAGAAUA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UCCCAUGG	23331
6684	CUCCUCAU G CAGCGGAA	4211	UUCCGCUG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG AUGAGGAG	23332
6687	CUAUGCA G CGGAAGGG	4212	CCCUUCG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UGCAUAG	23333
6695	GCGGAAGG G CAUUGGAA	4213	UUCCAUG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG CCUUCGCG	23334
6710	AAAGAUAG G UUUGGGAG	4214	CUCCCAA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG CUUUCUUU	23335
6719	UUUGGAG G CGCUGUCU	4215	AGACACG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG CUCCCAA	23336
6721	UGGGAGGC G CUGUCUUG	4216	CAAGACAG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG GCCUCCCA	23337
6724	GAGGCGCU G UCUUGGGA	4217	UCCCAAGA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG AGCGCCUC	23338

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6733	UCUUGGGA G UCGCGACC	4218	GGUCCGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCAAGA	23339
6736	UGGAGUC G CGACCUUU	4219	AAAGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACUCCCA	23340
6749	CUUUUUCU G UUGGAUGG	4220	CCAUCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAAAAG	23341
6757	GUUGGAUG G CUGAAGUU	4221	AACUUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCCAAC	23342
6763	UGGUGGAA G UUCGAGGA	4222	UCCUGGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAGCCA	23343
6781	CGAAGAU G CCGGAUUG	4223	CAUUCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUUCUUG	23344
6789	CGCGGAU G UUGCUGCU	4224	AGCAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCGCGC	23345
6792	GGAUGUU G CUGCUCUC	4225	GAGAGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAUUCC	23346
6795	AUGUUGCU G CUCUCCCU	4226	AGGAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCAACAU	23347
6817	UGAUGAUU G UGCUAAUU	4227	AAUAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCAUCA	23348
6819	AUGAUUGU G CUAUUUCC	4228	GGAUUUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUCAU	23349
6831	AUUCUUGA G CCAGAGAA	4229	UUCUCUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAGGAU	23350
6840	CCAGAGAA G CAACGUUC	4230	GAACGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUCUGG	23351
6845	GAAGCAAC G UUGCGAGA	4231	UCUGCGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUCGUUC	23352
6849	CAACGUUC G CAGACAGA	4232	UCUGUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAACGUUG	23353
6864	GACACCA G CUAGCCGU	4233	ACGGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUUGUC	23354
6868	ACCGGCUA G CCGUGUUC	4234	GAACAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGCUGGU	23355
6871	AGUAGCC G UGUUCCUG	4235	CAGGAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGUUAGCU	23356
6873	CUAGCCGU G UUCUGAU	4236	AUCAGGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGGCUAG	23357
6884	CCUGAUU G UGUCAUGA	4237	UCAUGACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUACAGG	23358
6886	UGAUUUGU G UCAUGACC	4238	GGUCAUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAAUUCA	23359
6898	UGACCCUU G UGAGCGCA	4239	UGCGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGGUUCA	23360
6902	CUUUGUA G CGCAGUGG	4240	CCACUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCACAAGG	23361
6904	UUGUGAG G CAGUGGCA	4241	UGCCACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCUCACAA	23362
6907	UGAGCGCA G UGCGAGCC	4242	GGCUGCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCGUUCA	23363
6910	GGCAGUG G CAGCCAAC	4243	GUUGGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUGGCG	23364
6913	CAGUGGCA G CCAACGAG	4244	CUUGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCACUG	23365
6926	CGAGUUG G UUGGCUAG	4245	CUAGCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUCUCG	23366
6930	AUGGGUUG G CUAGAUA	4246	UUAUCUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACCCAU	23367
6947	GACCAAGA G UGACAUAA	4247	UUAUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUGGUC	23368
6956	UGACAUAA G CAGUUUGU	4248	ACAAACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAUGUCA	23369
6959	CAUAAGCA G UUGUUUUG	4249	CAAAACAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUUAUG	23370
6963	AGCAGUUU G UUGGGGCA	4250	UGCCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAACUGCU	23371
6969	UUGUUUG G CAAAGAAU	4251	AUUCUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAACAA	23372
6982	GAAUUGAG G UCAAGGAG	4252	CUCCUUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCAAUUC	23373
6998	GAAUUUCA G CAUGGGAG	4253	CUCCCAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAAAUUC	23374
7008	AUGGGAGA G UUUUUUUU	4254	AAAAGAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCCCAU	23375
7026	GACUUGAG G CCGGCAAC	4255	GUUGCCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCAAGUC	23376
7030	UGAGCCCG G CAACAGCC	4256	GGCUGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGCCUCA	23377
7036	CGGCAACA G CGUGGUCA	4257	UGACCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUGCCG	23378

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7041	ACAGCCUG G UCACUGUA	4258	UACAGUGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGGCUGU	23379
7047	UGGUCACU G UACGCUGU	4259	ACAGCGUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUACCA	23380
7051	CAGUCUAC G CUGUGACA	4260	UGUCACAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUACAGUG	23381
7054	UGUACGCU G UGACAACA	4261	UGUUGUCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCGUACA	23382
7063	UGACAACA G CGGUCCUC	4262	GAGGACCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUUGUCA	23383
7066	CAACAGCG G UCCUCACU	4263	AGUGAGGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGCUGUUG	23384
7080	ACUCCACU G CUAAAGCA	4264	UGCUTUAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUGAGUG	23385
7086	CUGCUAAA G CAUUGAU	4265	AUCAUAUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUAGCAG	23386
7098	UGAUCAC G UCAGAUUA	4266	UAUUCUGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUGAUCAA	23387
7135	CAUAUAAC G UUCAGGCA	4267	UGCCUGAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUUAUUG	23388
7141	ACGUUCAG G CAAGUGCA	4268	UGACUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUGAACGU	23389
7145	UCAGGGCA G UGCACUAU	4269	AUAGUGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGCCUGA	23390
7147	AGGCAAGU G CACUAUUC	4270	GAUAUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUUGCCU	23391
7162	UCACACUC G CGCAGGCG	4271	GCCUCGCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAGUGUGA	23392
7164	ACACUCGC G CGAGGCUU	4272	AAGCCUCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCGAGUGU	23393
7169	CGGCGGAG G CUUCCCCU	4273	AGGGGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCGCGCG	23394
7180	UCCCCUUC G UCAGUGUU	4274	AACAUCGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAAGGGGA	23395
7186	UGUUCGAU G UUGGAGUG	4275	CACUCCAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCGACGA	23396
7192	AUGUUGGA G UGUCGGCU	4276	AGCCGAGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCACAU	23397
7194	GUUGGAGU G UCGGCTCU	4277	AGAGCGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACTUCCAC	23398
7198	GAGUGUCG G CUCUCCUG	4278	CAGGAGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGACACUC	23399
7206	GCTUCUCU G CUAGCAGC	4279	GCUGCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGAGAGC	23400
7210	UCCUGCUA G CAGCCGGA	4280	UCCGGCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAGCAGGA	23401
7213	UGCUAGCA G CCGGAUGC	4281	GCNUCCGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCUAGCA	23402
7220	AGCCGGAU G CUGGGGAC	4282	GUCCCCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCCGGCU	23403
7231	GGGGACAA G UCACCCUC	4283	GAGGGUGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGUCCCC	23404
7243	CCUCACC G UACGGUA	4284	UACCGUAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGUGAGGG	23405
7249	CGUUAAG G UAACAGCG	4285	CGCUUUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGUAAACGG	23406
7255	CGGUACA G CGGCAACA	4286	UGUUGCCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUUAACC	23407
7258	UAACAGCG G CAACACUC	4287	GAGUGUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGCUGUUA	23408
7274	CCUUUUU G CCACUAUG	4288	CAUAGUGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAAAAAGG	23409
7282	GCACUAU G CCUACAUG	4289	CAUGUAGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUAGUGGC	23410
7291	CUACAUG G UUCGCCGU	4290	ACCGGAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUUGAGG	23411
7298	GGUCCCCG G UUGGCAAG	4291	CUUGCCAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGGGAACC	23412
7302	CCGGGUG G CAAGCUGA	4292	UCAGUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAACCCGG	23413
7306	GUUGGCAA G CUGAGGCA	4293	UGCCUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGCCAAC	23414
7312	AAGCUGAG G CAUUGCGC	4294	GCACUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCAGCUU	23415
7317	GAGGCAAU G GGCUCAGC	4295	GCUGAGCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUGCCUC	23416
7319	GGCAUUG G CUCAGCCC	4296	GGGCUAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCAUUGCC	23417
7324	UGGCUCA G CCCAGCGG	4297	CCGCUUGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGAGCGCA	23418

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7329	UCAGCCCA G CGCGGAC	4298	GUCCGCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGGGCUGA	23419
7332	GCCAGCG G CGGACAGC	4299	GCUGUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CGCUGGG	23420
7339	GGCGACA G CGGCGGA	4300	UCCGGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGUCGCG	23421
7342	GGACAGC G CGGAUUC	4301	GAUUCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CGCUUCC	23422
7360	UGAAGAAC G CUGUAGU	4302	CACUACG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GUUCUUA	23423
7363	AGAACGU G UAGUGGAU	4303	AUCCACU GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGCUUCU	23424
7366	ACUGUA G UGAUGGC	4304	GCCAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UACAGGU	23425
7373	AGUGGAU G CAUCUGG	4305	CCACGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CAUCCACU	23426
7378	AUGGCAUC G UGGCCACG	4306	CGUGGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GAUGCCAU	23427
7381	GCAUCUG G CACGGAC	4307	GUCCUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CACGAUC	23428
7390	CCACGGAC G UCCAGAA	4308	UUUGGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GUCCUGG	23429
7404	GAUUAAG G CGCACAC	4309	GUGGUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCURAUUC	23430
7406	AUAGAGC G CACCACAC	4310	GUGUGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCUCUAAU	23431
7422	CCCAUCAU G CAGAAGAA	4311	UUUUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUGUGGG	23432
7432	AGAAAGA G UUGACAG	4312	CUUUCUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UUUCUUCU	23433
7446	CAGAUCAU G CUGAUCU	4313	AAGAUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUGAUCUG	23434
7456	UGAUCUUG G UGUCUCA	4314	UAGAGACA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CAAGAUA	23435
7458	AUCUUGU G UCUCUAGC	4315	GUAGAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACCAAGAU	23436
7465	UGUCUCA G CUGCAGUA	4316	UACUGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UAGAGACA	23437
7468	CUUAGCU G CAGUAGUA	4317	UACUACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGCUAGAG	23438
7471	UAGCUGA G UAGUAGUG	4318	CACUACU GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGACGUA	23439
7474	CUGCAGU G UAGUGAAC	4319	GUUACUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UACUCAG	23440
7477	CAGUAGU G UGAACCCG	4320	CGGUAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UACUACUG	23441
7485	GUGAACCC G UCUGUGAA	4321	UUCACAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GGGUUCAC	23442
7489	ACCGUCU G UGAAGACA	4322	UGUCUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGACGGU	23443
7498	UGAAGACA G UACGAGAA	4323	UUUCUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGUCUUA	23444
7507	UACGAGAA G CCGGAUU	4324	AAUUCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UUCUCUA	23445
7525	UGAUCAG G CGCAGCG	4325	CGCUGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CGUGAUA	23446
7528	UCACGGCC G CAGCGGUG	4326	CACCGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GGCCGUA	23447
7531	CGGCCGCA G CGUGACG	4327	CGUACCG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGCGCGG	23448
7534	CCGACGG G UGACGCUU	4328	AAGGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCGUGCG	23449
7539	GCGUGAC G CUUUGGA	4329	UCCCAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GUCACGC	23450
7555	AGAUUGA G CAGCUCU	4330	AGAGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCCAUCU	23451
7559	UGGAGCAA G CUCUGUUU	4331	AAACAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UUGCUCA	23452
7564	CAGCUCU G UUGGAAC	4332	GUUCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGAGCUU	23453
7573	UUUGAAC G CAACAACU	4333	AGUUGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GUUCCAA	23454
7582	CACAACU G CCAUCGGA	4334	UCCGAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGUUGUUG	23455
7595	CGGACUCU G CCAUCA	4335	UUGUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGAGUCG	23456
7605	CAGAUCAU G CGUGGGG	4336	CGCCACG GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUGAUGU	23457
7607	CAUCAUC G UGGGGGU	4337	AACCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCAUGAU	23458

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7613	GCGUGGG G UUGUGUGU	4338	ACAACCA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CCCACGC	23459
7617	GGGGUG G UUGUCAUG	4339	CAUGACA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CAACCCC	23460
7620	GGUUGGU G UCAUGUCU	4340	AGACAGA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	AACAACC	23461
7625	GUUGUCAU G UCUAUCCA	4341	UGGAUAGA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	AUGACAAC	23462
7682	AAAAAGG G UGGGGCAA	4342	UUGCCCA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CUCUUUU	23463
7687	GAGUGGG G CAAAAGGA	4343	UCCUUUG GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CCACCUU	23464
7697	AAAAGGAC G CACCUUGG	4344	CTCUUUU GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	GUUUUUU	23465
7711	UGGAGAG G UUUGGAAA	4345	UUUCCAA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CUCUCCA	23466
7749	AAAGAAG G UUCACUAG	4346	CUAGUGA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	UCUUUUU	23467
7758	UUCACUAG G UACCGCAA	4347	UUGCGUA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CUAGUGA	23468
7763	UAGGUACC G CAAAGAGG	4348	CTCUUUU GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	GGUACCUA	23469
7771	GCAAAGAG G CCAUCAUC	4349	GAUGAUG GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CUCUUUG	23470
7783	UCAUCGAA G UC GAUCGC	4350	GC GAUCGA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	UUCGAUGA	23471
7790	AGUCGAUC G CUCAGCGG	4351	CCGUCGAG GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	GAUCGACU	23472
7795	AUCGUCA G CGGCAAAA	4352	UUUUGCG GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	UGAGCGAU	23473
7798	GCUCAGG G CAAAACAC	4353	GUGUUUG GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CGCUGAGC	23474
7807	CAAAACAC G CCAGGAAA	4354	UUUCCUG GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	GUGUUUG	23475
7820	GAAGAAG G CAAUGUCA	4355	UGACAUU GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CUUCUUU	23476
7825	AAGGCAU G UCACUGA	4356	UCCAGUA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	AUUGCCUU	23477
7836	ACUGGAG G CAUCCAGU	4357	ACUGAUG GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CCUCAGU	23478
7843	GGCAUCA G UCUCUAGG	4358	CCUACAGA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	UGGAUGCC	23479
7853	CUUAGGG G CACAGCAA	4359	UUGCUGU GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CCCUAGG	23480
7858	GUGGCACA G CAAAACUG	4360	CAGUUUG GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	UGUGCCC	23481
7872	CUGAGAUG G CUGGUGA	4361	UCGACCAG GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CAUCUCAG	23482
7876	GAUGGCUG G UC GAACGG	4362	CCGUUCGA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CAGCCAUC	23483
7887	GAACGGAG G UUUCUGA	4363	UCGAGAA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CUCCGUUC	23484
7900	UCGAACCG G UCGGAAA	4364	UUUUCGA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CGGUUGA	23485
7909	UCGGAAGA G UGAUUGAC	4365	GUCAUCA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	UUUCCGA	23486
7925	CUUUGAU G UGGAAGAG	4366	CUCUCCA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	AUCCAAGG	23487
7934	UGGAAGG G CGGUUGGU	4367	ACCAACG GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CUUUCCA	23488
7937	AAGAGCG G UUGUGUUU	4368	AACACCA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CGCCUUCU	23489
7941	GGCGGUG G UGUUACUA	4369	UAGUAACA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CAACGCC	23490
7943	CGGUUGU G UUACUUA	4370	UAUAGUA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	ACCAACCG	23491
7954	ACUAUUG G CAACCAA	4371	UUGGUUG GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CAUAUAGU	23492
7959	AAAAAGA G UCCAGANA	4372	UUUUUGA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	UCUUUUU	23493
7978	UCCAAGAA G UCAGAGGG	4373	CCCUUGA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	UUCUUGGA	23494
7986	GUCAGAG G UACACAAA	4374	UUUGUGA GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CCUCGAC	23495
7997	CACAAAG G CGGUCCCG	4375	CGGACCG GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CCUUUGUG	23496
8000	AAAGGGG G UCCCGGAC	4376	GUCCGGG GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	CGCCUUU	23497
8016	CAUGAGA G CCCCAACU	4377	AGUUGGG GGA GCGUUAAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGG	UCUUAUG	23498

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8026	CCCAACUA G UGCAAGU	4378	ACUUUGCA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UAGUUGG	23499
8028	CAACUAGU G CAAGUUA	4379	UAACUUUG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG ACUAGUUG	23500
8033	AGUGCAAA G UUAUGGAU	4380	AUCCAUA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UUUGCACU	23501
8050	GGAACAUU G UCACCAUG	4381	CAUGUGA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AAUGUUC	23502
8063	CAUGAAGA G UGGAGUGG	4382	CCACUCCA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UCUUCAUG	23503
8068	AGAGUGGA G UGGAUGUG	4383	CACAUCCA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UCCACUCU	23504
8074	GAGUGGAU G UGUUCUAC	4384	GUAGRACA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AUCCACUC	23505
8076	GUGGAUGU G UUCUACAG	4385	CUGUAGA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG ACAUCCAC	23506
8094	CCUUCUGA G UGUUGUGA	4386	UCACAACA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UCAAGAGG	23507
8096	UUCUGAGU G UUGUGACA	4387	UGUACAAA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG ACUCAGAA	23508
8099	UGAGUGUU G UGACACCC	4388	GGUGUCA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG ACACUCA	23509
8114	CCUCCUUU G UGACAUCG	4389	CGAUGCA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AAAGGAGG	23510
8127	AUCGGAGA G UCCUCGUC	4390	GACGAGGA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UCUCGGAU	23511
8133	GAGUCCUC G UCAAGUCC	4391	GCACUUGA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GAGGACUC	23512
8138	CUCGUCAA G UGUGAGG	4392	CCUCAGCA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UUGACGAG	23513
8140	CGUCAAGU G UGAGGUG	4393	AACUCAG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG ACUUGACG	23514
8146	GUGCUGAG G UUGAAGAG	4394	CUCUCAA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CUCAGCAC	23515
8154	GUUGAAGA G CAUAGGAC	4395	GUUUAUG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UCUCUAC	23516
8170	CGAUUCGG G UCCUUGAA	4396	UUCRAAGA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CCGAUUCG	23517
8182	UUGAAUG G UUGAGGAC	4397	GUCCUCAA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CAUUUCAA	23518
8193	GAGGACUG G CUGACCC	4398	CGGUCAG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CAGUCCUC	23519
8196	GACUGGCU G CACCGAGG	4399	CUUCGUG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AGCCAGUC	23520
8205	CACCGAG G CCNAGGA	4400	UCCUUGG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CCUCGUG	23521
8219	GGAUUAU G CGUGAAG	4401	CCUUCACG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AAAAUUCC	23522
8221	AAUUUUG G UGAAGGUG	4402	CACUUA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GCAAAU	23523
8227	GGUGAAG G UGCUUGC	4403	GCAGACA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CUUCACGC	23524
8229	GUGAAGU G CUCUGCCC	4404	GGGCAGAG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG ACCUUCAC	23525
8234	GGUGCUU G CCCUACA	4405	UGUAGGG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AGAGCAC	23526
8244	CCUACAU G CCGAAAGU	4406	ACUUUCG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AUGUAGG	23527
8251	UGCCGAA G UCAUAGAG	4407	CUCUAUGA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UUUUGGCA	23528
8268	AAGAUGGA G CUGCUCA	4408	UGGAGCAG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UCCAUUU	23529
8271	AUGGAGU G CUCCAACG	4409	CGUUGGAG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AGCUCCAU	23530
8279	CAUCCAC G CCGUAUG	4410	CAUACCG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GUUGAGC	23531
8283	CAACGCC G UAUGGGG	4411	CCCCAUA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GGGGUG	23532
8299	GGGACU G UCAGAAC	4412	GUUUCUGA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CAGUCCC	23533
8328	AAUUCAC G CACGAGAU	4413	AUCUCUG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GUGGAUU	23534
8337	CACGAGU G UAUUGGU	4414	ACCCAUA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AUCUGUG	23535
8344	UGUAUUG G UGAGUCGA	4415	UGGACUCA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CCAUACA	23536
8348	UUGGGUGA G UGAGGCU	4416	AAGCUGA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UCACCCA	23537
8353	UGAGUCA G CUUCAGGC	4417	GCCUGAAG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UCGACUCA	23538

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8360	AGCUUCAG G CAUUGUG	4418	CCACAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG CUGAAGCU	23539
8365	CAGCAAU G UGUACAU	4419	AUGUACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG AUGCCUG	23540
8368	GCAUUGU G UACAUCU	4420	UGAAUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG CACAUGC	23541
8377	UACAUGU G UGAUAUG	4421	CAUAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG UGAUAUGA	23542
8390	UAUGACCA G CCAGGUG	4422	GCACCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG UGGUCAUA	23543
8395	CCAGCCAG G UGUCCUA	4423	UAGGAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG CUGGCCUG	23544
8397	AGCCAGGU G CUCCUAGG	4424	CCUAGGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG ACCUGGCU	23545
8452	AGGAAGAU G UAAACUUG	4425	CHAGUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG AUCUUCU	23546
8465	CUUGGAA G UGGAACCA	4426	UGGUUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG UCCCAAG	23547
8476	GAACCCAG G CGUGGGA	4427	UCCACCG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG CUGGUUC	23548
8479	CCAGGGCG G UGGAAAA	4428	UUUCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG CGCCUGG	23549
8493	AAACCCCU G CUCAACUC	4429	GAGUUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG AGGGUUU	23550
8510	AGACACCA G UAAAUCA	4430	UGAUTUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG UGGUGUCU	23551
8541	CGACUCAG G CGUGAGUA	4431	UACUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG CUGAGUCG	23552
8543	ACUCAGGC G UGUAACA	4432	UGUACUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG GCCUGAGU	23553
8547	AGCGUGA G UACAGUUC	4433	GAUCUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG UCACGCCU	23554
8552	UGAGUACA G UUCGAGU	4434	AGUCGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG UGUACUCA	23555
8559	AGUCCGAC G UGGCACCA	4435	UGUGCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG GUCGUGA	23556
8562	UCGACGUG G CACCACGA	4436	UCGUGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG AUCAUAC	23557
8606	CUAUCAG G CAGUUAUG	4437	CAUAACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG UUCACAU	23561
8609	UCACGCCA G UUAUGAU	4438	CAUAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG CUGUGGC	23562
8617	GUUAUGAU G UGAAGCC	4439	GGGCUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG GAGCCUG	23563
8622	GAUGGAA G CCAACAG	4440	CUUGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG UGCGGAG	23564
8630	GCCACAG G CUCGCCA	4441	UGGCGGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG GAACUGC	23565
8635	CAGCUC G CCAGUUCG	4442	CGAACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG CAGCGAC	23566
8639	CUCGCCA G UUCGUGG	4443	CCAGCGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG UCAUUGA	23567
8643	GCCAGUUC G CUGGUCAA	4444	UGACCCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG CACUCCAU	23568
8647	GUUGCUG G UCAUUGA	4445	UCCAUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG CUGACCAC	23569
8656	UCAAUGGA G UGUCCAG	4446	CCUGACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG AUUCGUGA	23570
8659	AUGGAGUG G UCAGGCUC	4447	GAGCTUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG CAGUUGG	23571
8664	GUGGUCAG G CUCCUUC	4448	GAGAGGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG CGAAGGG	23572
8698	UCACGAU G UUAACACC	4449	GGUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG UGCCGAA	23573
8710	CCACCAUG G CCAUGACU	4450	AGUCAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG UGCUGCC	23574
8736	CCUUCGG G CAGCAGG	4451	CGUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG UGCUGUCU	23575
8739	UUCGGCA G CAGCAGU	4452	ACUCGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG ACUCGUG	23576
8742	GGGAGCA G CGAGUUGU	4453	AACACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG CUUCUCU	23577
8746	AGCAGCA G UGUCAAA	4454	UUUGAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG UUCUGUGU	23578
8748	CAGCGAGU G UUCAAGA	4455	UCUUGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG UUCUGUGU	23579
8761	AAGAGAAG G UGGACACG	4456	CGUGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG UUCUGUGU	23580
8773	ACACGAA G CUCCUGAA	4457	UUCAGGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGG UUCUGUGU	23581

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8784	CCUGAACG G CCAGAAGG	4458	CCUUCUGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGUUCAGG	23579
8794	GAGAAGGA G UGAAGUAC	4459	GUACUUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUUCUG	23580
8799	GAGUGGAA G UACGUUCU	4460	AGACGUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCACUCC	23581
8803	UGAAGUAC G UGCUCAU	4461	AUTAGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUACUUA	23582
8805	AAGUACGU G CUCAUUA	4462	UCAUUGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACGUACUU	23583
8826	ACCAACUG G UUGUGGGC	4463	GCCCAAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGUUGGU	23584
8829	AACUGGUU G UGGGCGUU	4464	AACGCCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACCAUU	23585
8833	GUUUGUG G CGUUUUUG	4465	CAAAAACG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCACAACC	23586
8835	UUGUGGC G UUUUUUGC	4466	GCCAAAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCCACAA	23587
8842	CGUUUUUG G CCAGAGAA	4467	UUCUCUGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAAAACG	23588
8855	AGAAAAC G UCCAGAA	4468	UUCUGGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUUUUU	23589
8865	CCAGAAU G UGCUCUG	4469	CGAGACA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUCUGG	23590
8867	CAGAAUG G CUCUCGAG	4470	CUCGAGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAUUCUG	23591
8893	UAAGAAAG G UCRACAGC	4471	GCUGUUUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUUUUUA	23592
8900	GGUCAACA G CAAUGCAG	4472	CUGCAUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUUGACC	23593
8905	ACAGCAAU G CAGCUUUG	4473	CAAAGCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUGCUGU	23594
8908	GCAUUGCA G CUUUGGGU	4474	ACCCAAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCAUUGC	23595
8915	AGCUUUGG G UGCCAUGU	4475	ACAUGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCTAAAGCU	23596
8917	CUUUGGGU G CCAUGUUU	4476	AAACAUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACCCAAG	23597
8922	GGUGCCAU G UUGAAGA	4477	UCUUCAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGGCACC	23598
8931	UUUGAAGA G CAGAUAUA	4478	UGAUUCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUUCAAA	23599
8948	AUGGAGGA G CGCCAGAG	4479	CUCUGGCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUCCAU	23600
8950	GGAGGAGC G CCAGAGAA	4480	UUCUCUGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GTUCCUCC	23601
8959	CCAGAGAA G CAGUUGAA	4481	UUCACUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCUCUGG	23602
8962	GAGAAGCA G UUGAAGAU	4482	AUCUUCAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCUUCUC	23603
8989	GGGAGAU G UGGAUGAG	4483	CUCAUCCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCUCCC	23604
9000	GAUGAGGA G CGCGAGGC	4484	GCCUCGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUCAUC	23605
9002	UGAGGAGC G CGAGGCAC	4485	GUGCCUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCUCUCA	23606
9007	AGCGCGAG G CACAUCUG	4486	CAGAUGUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCGCGCU	23607
9015	GCACUUCU G CGGGGGGA	4487	UCCCCCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGAUGUGC	23608
9026	GGGGGAU G UCACACUU	4488	AAGUGUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUCGCCC	23609
9035	UCACACUU G CAUUUACA	4489	UGUAAUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAGUGUGA	23610
9078	CCGGGAGA G UUCGGAAA	4490	UUUCCGAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUCCGGG	23611
9088	UCGGGAAG G CCAAGGGA	4491	UCCCUUGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUUCCGA	23612
9098	CHAGGGA G CAGAGCCA	4492	UGGCUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCUCCUG	23613
9103	GAGGAGA G CCAUUGG	4493	CCAAUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUGCUUC	23614
9111	GCAUUG G UUCAUGUG	4494	CACAUGAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAAUGGC	23615
9117	UGGUUCAU G UGGCUCGG	4495	CCGAGCCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGAACCA	23616
9120	UUAUGUG G CUGGGAGC	4496	GCUCGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACAUGAA	23617
9127	GGCUCGGA G CUGGCUUU	4497	AAAGCGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCGAGCC	23618

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9131	CGGAGCUC G CUUUCUGG	4498	CCAGAAAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GAGUCCG	23619
9141	UUUCUGA G UUCGAGC	4499	GCCUGCAA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UCCAGAAA	23620
9148	AGUUCGAG G CUCUGGU	4500	ACCAGAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CUCGAACU	23621
9155	GGCUCUGG G UUUUCUA	4501	UGAGAAA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCAGAGCC	23622
9177	GACCACTUG G CUUGGAAG	4502	CUUCCAAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CAGUGGUC	23623
9203	AGGAGGAG G UGUCGAGG	4503	CCUCGACA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CUUCUCCU	23624
9205	GAGGAGGU G UCGAGGC	4504	GCUCGCGA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC ACCUCCUC	23625
9212	UUGCGAGG G CUUGGGCC	4505	GGCCCAAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCUCGACA	23626
9218	GGGCUUGG G CCUCCAAA	4506	UUUGGAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCAAGCCC	23627
9233	AAACUCGG G UUACAUC	4507	GGAUUAA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCAGUUUU	23628
9243	UACAUCU G CGUGAAGU	4508	ACUUCACG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGGAUGUA	23629
9245	CAUCCUGC G UGAAGUUG	4509	CAACUUA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GCAGGAUG	23630
9250	UGCGUGAA G UUGGCACC	4510	GGUGCAA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UUCACGCA	23631
9254	UGAAGUUG G CACCCGGC	4511	GCCGGGUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CAACUUA	23632
9261	GGCACCCG G CCUGGGGG	4512	CCCCCAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCGGUGCC	23633
9269	GCCUGGGG G CAAGAUUC	4513	AGAUCUUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCCCAGGC	23634
9280	AGAUCAU G CUGAUGAC	4514	GUCAUCAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AUAGAUCU	23635
9292	AUGACACA G CUGGCUGG	4515	CCAGCCAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UGUGUUAU	23636
9296	CACAGCUG G CUGGGACA	4516	UGUCCAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CAGCUGUG	23637
9308	GGACACCC G CAUCACGA	4517	UCGUGAUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GGGUUGCC	23638
9319	UACACGAG G CUGACUUG	4518	CAAGUCAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UCUCUGUA	23639
9337	AAAUCAA G CUAAGGUG	4519	CACCUUAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UUCAUUUU	23640
9343	AAGCUAAG G UGCUDGAG	4520	CUCAAGCA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CUUAGCUU	23641
9345	GUUAAGGU G CUUGAGCU	4521	AGUCUAA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG ACCUAGC	23642
9351	GUUCUUGA G CUGCUUGA	4522	UCAAGCAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UCAAGCAC	23643
9354	CUUGAGCU G CUUGAUGG	4523	CCAUCAAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGCUCAG	23644
9372	GAACAUCG G CGUCUUGC	4524	GCAAGACG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CGAUGUUC	23645
9374	ACAUCGGC G UCUUGCCA	4525	UGGCAAGA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GCCGAUGU	23646
9379	GGCGUCUU G CCAGGGCC	4526	GGCCUUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AAGAGGCC	23647
9385	UUGCCAGG G CCAUCAUU	4527	AUUGAUUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCUGGCNA	23648
9396	AUCAUUGA G CUCACCTA	4528	UAGGUGAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UCAAUUAU	23649
9407	CACCUAUC G UCACAAAG	4529	CUUUGUA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GAUAGGUG	23650
9415	GUACACAA G UUGUGAAA	4530	UUUCACAA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UUUGUGAC	23651
9418	ACAAAGUU G UGAAGUG	4531	CACUUUCA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AACUUUGU	23652
9424	UUGUGAAA G UGAUGCGC	4532	GCACAUCA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UUUACAAA	23653
9429	AAAGUGAU G CGCCCGGC	4533	GCCGGGCG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AUCACUUU	23654
9431	AGUGAUGC G CCCGGTUG	4534	CAGCCGGG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GCAUCACU	23655
9436	UGCGCCCG G CUGCUGAU	4535	AUCAGCAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CGGCGGCA	23656
9439	GCCCGGCU G CUGAUGGA	4536	UCCAUCAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGCCGGGC	23657
9454	GAAGAACC G UCAUGGAU	4537	AUCCAUGA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GGUUCUUC	23658

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9463	UCAUGGAU G UUAUCUCC	4538	GGAGAUA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AUCCAUGA	23659
9491	GAGGGGA G UGAACAAG	4539	CUUGUCCA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UCCCCUUC	23660
9499	GUGGACAA G UUGUCACC	4540	GGUGACAA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UUGUCCAC	23661
9502	GACAAGU G UCACCUAC	4541	GUAGGUGA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AACUUGUC	23662
9511	UCACCUAC G CCGUAAAC	4542	GUUAGGG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GUAGUGA	23663
9535	CCAACTUG G CCGUCCAG	4543	CUGGACGG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CAGUUGG	23664
9538	ACUUGGC G UCCAGCTUG	4544	CAGCUUGA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GGCCAGGU	23665
9543	GCGUCCA G CUGUGAG	4545	CUCACGAG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UGGACGGC	23666
9547	UCCAGCUG G UGAGGAUG	4546	CAUCCUA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CAGCUGGA	23667
9571	GGGAAGGA G UGAUUGC	4547	GCCAAUGA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UCCUUCUCC	23668
9578	AGUGAUUG G CCGAGAUG	4548	CACUCCGG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CAUUCACU	23669
9589	CAGAUGAU G UGGAGAAA	4549	UUUCUCCA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AUCAUCUG	23670
9622	GACCCCAA G UCAGGACC	4550	GGUCCUGA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UUGGGUC	23671
9633	AGGACCU G CUGUUUGA	4551	UCAAACAG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CAGGUCCU	23672
9636	ACCUGGU G UUGAGAA	4552	UUCUCAAA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AGCCAGGU	23673
9662	AAGACUA G CCGCAUGG	4553	CCAUGGGG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UGAGUCUU	23674
9665	ACUCAGC G CAUGGUG	4554	CAGCCAUG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GGCUGAGU	23675
9670	GCCGCAUG G CUGUCAGU	4555	ACUGACAG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CAUGCGGC	23676
9673	GCAUGGU G UCAGUGA	4556	UCCACUGA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AGCCAUUC	23677
9677	GGCUGUA G UGGAGAUG	4557	CAUCUCCA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UGACAGCC	23678
9689	AGAUGAU G UUGGUA	4558	UUAACACA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AGUCAUCU	23679
9691	AUGACUGU G UGGUAAAG	4559	CUUAACCA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG ACAGUCAU	23680
9694	ACUGUGU G UAAAGCCC	4560	GGGCUUA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CACACAGU	23681
9699	GUGUAAA G CCCCUGA	4561	UCCAGGGG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UUAUCCAC	23682
9713	GGACGAUC G CUUGCCA	4562	UGGCAAG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GAUCGUCC	23683
9718	AUCGCUU G CCACUUG	4563	CGAGGUG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AAAGCGAU	23684
9726	GCCACUUC G CUCCAUU	4564	AAGUGAG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GAGGUCC	23685
9742	UCCUCAA G CUAUGUA	4565	UGACAUG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AUUGAGGA	23686
9747	AAUGCUAU G UCRAAGGU	4566	ACCUUGA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG ADAGCAU	23687
9754	UGUCAAG G UUCGAAA	4567	UUUGGAA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CUUUGACA	23688
9758	AAAGGUUC G CAAAGACA	4568	UGUCUUUG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GAACUUU	23689
9774	AUCCAAGA G UGGAAC	4569	GGUUCCA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UCUGGAU	23690
9783	UGGAACC G UCACUUG	4570	CCAGUUGA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GGUUCCA	23691
9795	ACUGGAUG G UAGAUUG	4571	CAAUCAA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CAUCCAGU	23692
9804	UAUGAUUG G CAGCAGU	4572	ACCUUG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CAUCAUA	23693
9807	GAUUGGA G CAGGUUC	4573	GGAACUG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UGCCAUUC	23694
9811	GGCAGCAG G UCCAUUU	4574	AAAUCAA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CUGCUGCC	23695
9821	UCCAUUU G CUCAAAC	4575	GGUUGAG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AAAUGGA	23696
9868	GAACACUG G UGUUCCA	4576	UGGAACA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CAGUUC	23697
9871	CACUGGUG G UUCAUGC	4577	GCAUGAA GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CACCAGUG	23698

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9878	GGUCCAU G CCGAGGAC	4578	GUCCUCG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AUGGAACC	23699
9898	AUGAATUG G UAGGACGA	4579	UCUGCCUA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CAUUCAU	23700
9902	AUUGUAG G CAGAGCUC	4580	GAGCUCG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CUACCAU	23701
9907	UAGGAGA G CUCGCAUA	4581	UAUGCGAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG UCUGCCUA	23702
9911	CAGAGCUC G CAUAUCUC	4582	GGAUAUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG GAGCUCUG	23703
9925	CUCCAGG G CCGAUGG	4583	CCAUCCGG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CCUGGAG	23704
9937	GAUGGAAC G UCCGCGAC	4584	GGCGCGGA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG GUCCCAUC	23705
9941	GAACGUCC G CGACACUG	4585	CAGUUCG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AGCAGUUC	23706
9949	GGACACU G CUUGUCUG	4586	CAGACUA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AGUGUCG	23707
9953	CACUGCU G UCUGGCUA	4587	UAGCCAGA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AAGCAGUG	23708
9958	CUUGUCUG G CUAAGUCU	4588	AGACCUAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CAGACAG	23709
9963	CUGGCUAA G UCUAUGC	4589	GCAUAAGA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG UUAGCCAG	23710
9970	AGUCUAU G CCCAGAUG	4590	CAUCUGG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AUAAGACU	23711
9978	GCCAGAU G UGGCUGCU	4591	AGCAGCCA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AUCUGGC	23712
9981	CAGAUGUG G CUGCUUCU	4592	AGAAGCAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CACAUCUG	23713
9984	AUGUGGU G CUUCUGUA	4593	UACAGAAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AGCCACAU	23714
9990	GUCUUCU G UACUUCUA	4594	UGGAAGUA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AGAAGCAG	23715
10011	AGAGACCU G CGGCUCAU	4595	AUGAGCCG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AGGUCUCU	23716
10014	GACCUUG G CUCUUGGC	4596	GCAUAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CGCAGGUC	23717
10021	GGCUAUG G CCAAGGCC	4597	GGCGUUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CAUGAGC	23718
10027	UGGCCAAC G CCAUUGC	4598	GCAAUUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG GUUGGCCA	23719
10034	CGCCAUU G CUCGCGUG	4599	CAGCGAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AAUUGCG	23720
10039	UUUGUCC G CUGUCCU	4600	AGGACAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG GGAGCAAA	23721
10042	GUCCGCU G UCCUGUG	4601	CACAGGA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AGCGAGC	23722
10048	UGUCCCU G UGAUUGG	4602	CCAAUUA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AGGACAG	23723
10057	UGAAUUG G UCCUACC	4603	GGUAGGA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CCAAUUA	23724
10077	AGAACAC G UGUCCAU	4604	AUGGACCA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG GUGGUUCU	23725
10080	ACACGUG G UCCAUCCA	4605	UGGAUGA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CACGUGU	23726
10090	CCAUCAU G CAGAGGA	4606	UCCUCCUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AUGGAUG	23727
10101	GGAGGAGA G UGGAUGAC	4607	GUCAUCCA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG UCUCCUCC	23728
10122	GAGGACU G UUGGAGGU	4608	ACCUCCA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG AUGUCCUC	23729
10129	UGUUGAG G UCUGGAAC	4609	GUUCCAGA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CUCCAACA	23730
10139	CUGGACC G UGUUGGA	4610	UCCAAACA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG GGUUCCAG	23731
10141	GGAACCGU G UUGGAUA	4611	UAUCCAA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG ACGGUUC	23732
10183	AAACCCCA G UGGAGAA	4612	UUUCUCCA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG UGGGUUU	23733
10196	GAAUUGA G UGACGUCC	4613	GGAGCUCA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG UCCAUUC	23734
10201	GGAGUGAC G UCCCAUAU	4614	AUAUGGA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG GUCACUCC	23735
10233	GACAUUG G UGUGGAC	4615	CUGCCACA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CAGAUGC	23736
10235	CAUCUGU G UGGCAGCC	4616	GGCUGCCA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG ACCAUG	23737
10238	CUGGUGU G CAGCCUGA	4617	UCAGGCU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGG CACACCAG	23738

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10241	GUUGGCA G CCUGAUG	4618	CAACAGG GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UGCCACAC	23739
10250	CCUGAUG G CACAGAG	4619	CUCUUGG GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	CAAUACAG	23740
10258	GCACAGA G CCCGAGC	4620	GGCUGGG GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UCCUGUGC	23741
10264	GAGCCGA G CCACGUG	4621	CCACGUG GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UCCGGGUC	23742
10269	CGAGCCAC G UGGGCAGA	4622	UCUGCCA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	GUGGUCG	23743
10273	CCACGUG G CAGAAAC	4623	GUUUCUG GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	CCACGUG	23744
10288	ACAUCAG G UGGCUAUC	4624	GAUAGCA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	CUGGAUGU	23745
10291	UCCAGGUG G CUAUCAAC	4625	GUUGAUG GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	CACCUGGA	23746
10303	UCAACCA G UCAGAGCA	4626	UGCUCUG GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UUGGUUGA	23747
10309	AGUCAGA G CAAUCAUC	4627	GAUGAUG GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UCUGACUU	23748
10329	GAUGAGAA G UAUUGGA	4628	UCCACUA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UCUCUAUC	23749
10333	AGAAGUAU G UGAUUAU	4629	GUUAUCA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	AUACUUCU	23750
10346	UUAUGA G UUCACUAA	4630	UUAUGAA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UCAUGUAA	23751
10378	CAACUUG G UUGAGGAC	4631	GUCCUCA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	CAAGUUG	23752
10390	AGGACACA G UACUGUAG	4632	CUACAGUA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UGUUGUCU	23753
10395	ACAGUACU G UGAUUAU	4633	AAUAUCA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	AGUACUGU	23754
10413	AAUCAAUU G UAAAUAGA	4634	UCUAUUA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	AAUUGAUU	23755
10430	CAUAUAA G UAUUCAUA	4635	UAUGCAUA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UAUAUUG	23756
10434	AUAUAUAU G CAUAAAG	4636	CUUUAUG GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	AUACUUAU	23757
10442	GCAUAAA G UGUAGUUU	4637	AAAUACA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UUUAUUGC	23758
10444	AUAAAGU G UAGUUUA	4638	UAAAUCA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	ACUUUAU	23759
10447	AAAGUGUA G UUUUAUAG	4639	CUAUAUA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UACACUUU	23760
10455	GUUUUAUA G UAGUAUUU	4640	AAAUACA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UAUAUAAC	23761
10458	UUAUAGUA G UAUUAUAG	4641	ACUAAUA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UACUAUAA	23762
10465	AGUAUUUA G UGGUGUUA	4642	UAACACA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UAAUAUCU	23763
10468	AUUUAGUG G UGUUAGUG	4643	CACUAUA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	CACUAUAU	23764
10470	UUUAGUGU G UUAUGUA	4644	UACAUUA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	ACCACUAA	23765
10474	UGGUGUUA G UGUAAUA	4645	UAUUUAUA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UAACACCA	23766
10476	GGUUAUGU G UAAUAUGU	4646	ACUAUUUA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	ACUAACAC	23767
10483	UGUAUAUA G UUAAGAAA	4647	UUUCUUA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UAUUUAUA	23768
10506	AGGAGAAA G UCAGGCCG	4648	CGGCUUA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UUUCUUCU	23769
10511	AAAGUCAG G CCGGGAAG	4649	CUUCCCG GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	CUGACUUU	23770
10519	GCGGGGAA G UUCGCGCC	4650	GGCGGAA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UUCGCGGC	23771
10525	AAGUCCC G CCACCGGA	4651	UCCGGUG GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	GGGAACUU	23772
10535	CACGGGAA G UUGAGUAG	4652	CUACUUA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UUCGCGUG	23773
10540	GAGUUGA G UAGACGUG	4653	ACCGUUA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	UCAACUUC	23774
10547	AGUAGACG G UGUGCCU	4654	AGGACGA GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	CGUCUACU	23775
10549	UAGACGGU G UGCGUUGC	4655	GCAGGAG GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	ACCGUCUA	23776
10552	ACGGUGCU G CCUGCGAC	4656	GUUGCAG GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	AGCACCGU	23777
10556	UGUGCCU G CGACUCAA	4657	UUGAGUG GGA GCCGUUAGGC	UCCGUUAGGC	UCCGGG	AGGCAGCA	23778

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10580	AGGACUGG G UGAACCAA	4658	UUUGUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CCAGUCCU	23779
10589	UGAACAA G CCGGAAG	4659	UUUCGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUGUUA	23780
10592	ACAAAGC G CGAAGUA	4660	UCACUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GGUUUA	23781
10597	GCCGCGA G UGAUCCAU	4661	AUGGAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUCGCGC	23782
10606	UGAUCCAU G UAGCCCU	4662	AGGCUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AUGGAUA	23783
10610	CCAUGUA G CCUCAGA	4663	UCUGAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUAUAUG	23784
10622	UCAGAACC G UCUCGGA	4664	UUCGAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GGUUUA	23785
10645	CCCCACU G UUGUAACU	4665	AGUUAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AUGUGGG	23786
10648	CACAUGU G UAACTUCA	4666	UGAAGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AACAUUG	23787
10659	ACUUCAA G CCCAUGU	4667	ACAUUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUAUAUG	23788
10666	AGCCCAU G UCAGACCA	4668	UGGUUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AUUGGCU	23789
10676	CAGACCAC G CUACGGC	4669	CGCCUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GUGGUCU	23790
10682	ACGCUAG G CGUGCUAC	4670	GUAGCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CGUAGCU	23791
10684	GUACAGC G UGUACUC	4671	GAGUAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GCCUAGC	23792
10686	UACGGCU G CUACUCU	4672	CAGAGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACGCGUA	23793
10694	GUACUCU G CGGAGAGU	4673	ACUCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AGAGUAGC	23794
10701	UCGGAGA G UGCAGUCU	4674	AGAUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCUCGCA	23795
10703	CGGAGAGU G CAGUCUC	4675	GCAGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACUCUCC	23796
10706	AGAGUGA G UCUGCGAU	4676	AUCGAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGCACUCU	23797
10710	UGCAGUCU G CGAUAGU	4677	CACUAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AGACUGCA	23798
10716	CUGCGUA G UGCCCGAC	4678	CUGGGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UAUCGAG	23799
10718	CGGAUAGU G CCCCAGGA	4679	UCCUGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACUAUCG	23800
10734	AGGACUGG G UUAACAAA	4680	UUUGUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CCAGUCCU	23801
10744	UAAACAAG G CAAACCAA	4681	UUGGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CUUUGUA	23802
10754	AAACCAAC G CCCCACG	4682	GCGUGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GUUGUUU	23803
10761	CGCCACAC G CGGCCUA	4683	UAGGGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GUGGGCG	23804
10764	CCCACCG G CCCCAGC	4684	GGCUAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CGCUGGG	23805
10770	CGGCCUA G CCCCAGUA	4685	UACCGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UAGGGCG	23806
10776	UAGCCCG G UAAUGGU	4686	CACCAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CGGGCUA	23807
10782	CGUAUAG G UGUUAACC	4687	GGUAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CAUUAAC	23808
10784	GUUAUGU G UUAACCA	4688	CUGGUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACCAUAC	23809
10794	UACCAAG G CGAAAGGA	4689	UCCUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CCUGGUA	23810
10809	GACUAGG G UUAAGAGA	4690	UCCUUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CUUAGUC	23811
10824	GAGACCC G CGGUUUA	4691	UUAACCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GGGUUCU	23812
10827	ACCCCGG G UUUAAAGU	4692	ACUUAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CGCGGGU	23813
10834	GGUUAAA G UGCACGC	4693	GCCGUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUUAAAC	23814
10836	UUUAAGU G CACGGCC	4694	GGGCGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACUUAAA	23815
10841	AGUGCAG G CCGAGCU	4695	AGGCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CGUGACU	23816
10846	ACGGCCA G CCUGACU	4696	CAGUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGGCGCU	23817
10857	UGACUGAA G CUGUAGU	4697	ACCUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUCAGUA	23818

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10860	CUGAAGCU G UAGGUCAG	4698	CUGACCUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUUCAG	23819
10864	AGCUGUAG G UCAGGGGA	4699	UCCCCUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUACAGCU	23820
10883	GACUAGAG G UUAGUGGA	4700	UCCACUAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUACAGU	23821
10887	AGAGGUUA G UGGAGACC	4701	GGUCUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAACCCUCU	23822
10898	GAGACCCC G UGCCACAA	4702	UUGUGGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGGUCUC	23823
10900	GACCCCGU G CCACAAAA	4703	UUUUGUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGGGGUC	23824
10924	ACAAACA G CAUAUUGA	4704	UCAAUAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUUGU	23825
10960	GAUCUUCU G CUCUGCAC	4705	GUGCAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAAGAU	23826
10965	UCUGUCUC G CACAACCA	4706	UGGUGUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAGCAGA	23827
10974	CACAAACA G CCACACGG	4707	CCGUGUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUUGUG	23828
10982	GCCACAG G CACAGUGC	4708	GCACUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGUGGC	23829
10987	ACGGCACA G UGCGCGGA	4709	UCGGCGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGCCGU	23830
10989	GGCAGAG G CGCGGACA	4710	UGUGGGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGUGGC	23831
10991	CACAGUC G CCGACAAU	4711	AUUGUCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCACUGUG	23832
11001	CGACAAUG G UGGCUGGU	4712	ACCAGCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUGUGG	23833
11004	CAUUGUG G CUGGUGGU	4713	ACCACACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACCAUUG	23834
11008	GGUGGUC G UGUGGCGA	4714	UCCGACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGCCACC	23835
11011	GGCUGGUG G UGCGAGAA	4715	UUUCGCGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACCAGCC	23836
11013	CUGUGUG G CGAGAACCA	4716	UGUUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCACCAG	23837
17	GCUGUGU G AGCUGACA	5462	UGUCAGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACAGGC	23838
22	UGUCAGU G ACNACU	5463	AAGUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUCACA	23839
43	GUGUUGU G AGGADUAA	5464	UUAUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAAAAC	23840
45	GUUUGA G GAUUAACA	5465	UGUUAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCACAAAC	23841
46	UUUGUGAG G AUUAACAA	5466	UUUUUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCACAAA	23842
70	CACAGUC G AGCUGUUU	5467	AAACAGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCACUUGG	23843
87	CUAGCAC G AAGAUUCU	5468	GAGAUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGCUAAG	23844
90	AGCAGAA G AUUCGAAU	5469	AUCGAGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUGU	23845
96	AAGAUUC G AUGUCUAA	5470	UUAGACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGAUUUU	23846
105	AUGUCUAA G AAACGAG	5471	CCUGGUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAGACAU	23847
112	AGAAACCA G GAGGCCCC	5472	GGGCCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUUUCU	23848
113	GAACACAG G AGGGCCCG	5473	CGGGCCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGUUUUC	23849
115	AACACAG G GCGCCGCG	5474	GCGGGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUGGUU	23850
116	ACCAGAG G GCGCCGCA	5475	UGCCGGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCUGGU	23851
121	GAGGCCC G GCAAGAGC	5476	GCUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGCCCUU	23852
126	CCCGGAA G AGCCGGGC	5477	GCCCGGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGCCGCG	23853
131	CAAGAGC G GCGUUA	5478	UGACAGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGCUCUUG	23854
132	AAGAGCG G GCUGUCAA	5479	UUAGACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGCUCUU	23855
154	UAAAGCG G GAUUGCCC	5480	GGGCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGUUUUA	23856
155	AAAACCG G AAUGCCCC	5481	GGGCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGUUUUU	23857
177	UUGUCCUU G AUUGGACU	5482	AGUCCAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGGACAA	23858

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181	CCUUGAUU G GACUGAAG	5483	CUUCAGUC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG AAUCAAGG	23859
182	CUUGAUUG G ACUGAAGA	5484	UUUCAGU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG CAUCAAG	23860
186	AUUGGACU G AAGAGGGC	5485	GCCUCUUU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG AGUCCAAU	23861
189	GGACUGAA G AGGGCUAU	5486	AUAGCCUU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG UGUACUCC	23862
191	ACUGAAGA G GGCUAUGU	5487	ACAUAGCC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG UCUCUAGU	23863
192	CUGAAGAG G GCUAUGUU	5488	AACAUAGC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG CUCUUCAG	23864
201	GCUAUGUU G AGCCUGAU	5489	AUCAGGGU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG AACAUAGC	23865
207	UUGAGCCU G AUCGACGG	5490	CCUUCGAU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG AGGCUCAA	23866
211	GCUCGAUC G ACGGCAAG	5491	CUUGCCGU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG GAUCAGGC	23867
214	UGAUCGAC G GCAAGGGG	5492	CCCCTUCC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG GUCGAUCA	23868
219	GACGGCAA G GGGCCAAU	5493	AUUGGCC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG UUGCCGUC	23869
220	ACGGCAAG G GGCCAAUA	5494	UAUUGGCC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG CUUGCCGU	23870
221	CGGCAAG G GCCAAUAC	5495	GUUUGGCC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG CCUUGCCG	23871
230	GCCAAUAC G AUUUGUGU	5496	ACACAAU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG GUUUGGCC	23872
240	UUUGUGUU G GUCUCUUU	5497	AAGAGAGC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG AACACAAA	23873
249	GCUCUCUU G GCGUUCUU	5498	AAGAAGCC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG AAGAGAGC	23874
260	GUUCUACA G GUUCACAG	5499	CUGUGAAC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG UGAAGAAC	23875
279	AUUGCUCC G ACCCGAGC	5500	GCUCGGU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG GGAACAUA	23876
284	UUCGACCC G AGCAGUGC	5501	GCACUGUU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG GGGUCGGA	23877
294	GCAUGUCU G GAUCGAUG	5502	CAUCGAUC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG AGCAGUGC	23878
295	CAGUGCUG G AUCGAUGG	5503	GCAUCGAU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG CAGCACUG	23879
299	GUUGGAUC G AUGGAGAG	5504	CUCUCAU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG GAUCCAGC	23880
302	GGAUCGAU G GAGAGGUG	5505	CACCUUC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG AUCGAUCC	23881
303	GAUCGAUG G AGAGGUGU	5506	ACACCCU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG CAUCGAUC	23882
305	UCGAUGGA G AGGUGUGA	5507	UCACACCU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG UCCAUCCGA	23883
307	GAUGGAGA G GUGUGAAC	5508	GUUCACAC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG UCUCCAUC	23884
312	AGAGGUGU G AACAAACA	5509	UGUUGUU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG ACACCUUC	23885
327	CAAACAGC G AUGAAACA	5510	UGUUCAU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG GCUGUUG	23886
330	ACAGCGAU G AACACCCU	5511	AGGUGUU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG AUCGCTGU	23887
342	CACCUUCU G AGUUUUA	5512	UUAAACU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG AGAAGGUG	23888
351	AGUUUUA G AAGGAACU	5513	AGUUCUU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG UUAACAUC	23889
354	UUUAAGAA G GAACUAGG	5514	CCUAGUUC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG UUCUAAA	23890
355	UUAAGAAG G AACUAGGG	5515	CCCUAGUU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG CUUCUAAA	23891
361	AGGAACUA G GACCCUUG	5516	CAAGGUCC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG UAGUCCU	23892
362	GGAACUAG G GACCUUGA	5517	UCAAGUUC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG CUAGUCC	23893
363	GAACUAG G ACCUUGAC	5518	GUCAAGGU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG CCUAGUUC	23894
369	GGACCCUU G ACCAGUGC	5519	GCACUGU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG AAGGUCCC	23895
386	UAUCAUC G GCGGAGCU	5520	AGCUCGCG GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG GAUUGADA	23896
389	CAUCGGC G GAGCUCAA	5521	UUGAGUUC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG GCCGAUUG	23897
390	AAUCGGCG G AGCUCAA	5522	UUUGAGCU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG GCGCGAUU	23898

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405	AAACAAA G AAAAGAGG	5523	CCUCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUGUUU	23899
410	AAAGAAA G AGGAGGAA	5524	UUUUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUUUU	23900
412	AGAAAGG G GAGGAAAG	5525	UUUUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUUUU	23901
413	GAAGAAG G AGGAAGA	5526	UUUUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUUUU	23902
415	AAAGAGG G GAAAGACC	5527	GGUUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUUUU	23903
416	AAAGAGG G AAAGACCG	5528	CGGUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUUUU	23904
420	GGAGGAA G ACCGGAU	5529	AUUCGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUUUU	23905
424	GAAGACC G GAUUGCA	5530	UGCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUUUU	23906
425	AAAGACCG G AUUGCAG	5531	CUGCAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUUUU	23907
438	GCAGUAC G AUUGCCU	5532	AGGCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUUUU	23908
442	UAUGAUU G GCCUGAUC	5533	GAUCAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUACUGA	23909
447	AUUGCCU G AUCGCCAG	5534	CUGGCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGCCAAU	23910
460	CCAGGUA G GAGCAGU	5535	AACUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACGCCUG	23911
461	CAGGUAG G AGCAGUUA	5536	UAACUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUACGCCUG	23912
487	ACUCCAA G GGAAGGUG	5537	CACCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGGAAU	23913
488	CUUCCAG G GAAGGUGA	5538	UACCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23914
489	UUCCAAG G AAGGUGAU	5539	AUCACCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23915
492	CAAGGAA G GUGAUGAU	5540	AUCUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23916
495	GGGAAGG G AUGAUGAC	5541	GUACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23917
498	AAGGUGU G AUGAGGUG	5542	ACCGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23918
501	GUGAUGU G ACGGUAAA	5543	UUUACCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23919
504	AUGAUGAC G GUAAUUGC	5544	GAUUUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23920
517	AUGUACU G ACGUCACA	5545	UGUACGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23921
526	ACGUCACA G AUGUCAUC	5546	GAUGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23922
537	GUCAUCAC G AUUCCAAC	5547	GUUGAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23923
553	CAGCUGU G GAAAGAAC	5548	GUUCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23924
554	AGCUGUG G AAAGAACC	5549	GGUUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23925
558	GUUGGAA G AACCUAUG	5550	CAUAGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23926
575	CAUUGUA G AGCAAUGG	5551	CCAUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23927
582	AGAGCAU G GAUGUGGG	5552	CCCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23928
583	GAGCAUG G AUGUGGGA	5553	UCCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23929
588	AUGGAUG G GAUACAU	5554	AUGUAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23930
589	UGGAUGU G GAUACAUG	5555	CAUGUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23931
590	GAUGUGG G AUACAUGU	5556	ACAUUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23932
601	ACAUUGC G AUGAUACU	5557	AGAUUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23933
604	UGAUGAU G AUACUAUC	5558	GAUAUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23934
619	UCACUAU G AAUGCCA	5559	UGGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23935
636	GUGCUGU G GCUGGUA	5560	UAACAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23936
640	UGUGGCU G GUAAUGAU	5561	AUCAUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23937
646	CUGUAU G AUCCAGAA	5562	UUCUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAA	23938

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652	AUGAUCCA G AAGACAUC	5563	GAUGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGAUCAU	23939
655	AUCCAGAA G ACAUCGAC	5564	GUCAUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUGGAU	23940
661	AAGACAUC G ACUGUUG	5565	CCAACAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUGUCUU	23941
668	CGACUGUU G GUGCAAA	5566	UUGUGCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAGUCG	23942
695	CUACGUCA G GUUUGGAA	5567	UUCCAUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGACGUAG	23943
700	UCAGGUUU G GAAGAUGC	5568	GCAUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUACCTUGA	23944
701	CAGGUUUG G AAGAUGCA	5569	UGCAUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUACCUUG	23945
704	GUUUGGAA G AUGCACCA	5570	UGUGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCCAUAC	23946
714	UGCACCAA G ACACGCCA	5571	UGGCGUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUGGCA	23947
728	CCACUCAA G ACGCAGUC	5572	GACUGCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAGUGA	23948
737	ACGCAGUC G GAGGUCAC	5573	GUGACCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACUGCGU	23949
738	CGCAGUCG G AGGUCACU	5574	AGUGACCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGACUGCG	23950
740	CAGUCGGA G GUCACUGA	5575	UCAGUGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGACUG	23951
747	AGGUCACU G ACAGUGCA	5576	UGACUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGACCU	23952
756	ACAGUGCA G ACACACGG	5577	CCGUGUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCACUGU	23953
763	AGACACAC G GAGAAAGC	5578	GCUUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGUGUCU	23954
764	GACACACG G AANAAGCA	5579	UGCUUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGUGUC	23955
766	CACACGGA G AAAGACAU	5580	AGUCUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGUGUG	23956
780	ACUCUAGC G AACAGAA	5581	UUCUUGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCUAGAGU	23957
786	GCGAACAA G AAGGGGGC	5582	GCCCCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUCGC	23958
789	AACAGAA G GGGGCUUG	5583	CAAGCCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUUGUU	23959
790	ACAAGAG G GGGCUUUG	5584	CRAAGCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCUUGU	23960
791	CAAGRAGG G GGUUGGA	5585	UCCAAGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUUCUUG	23961
792	AAGRAGG G GCUUGGAU	5586	AUCCAAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUCUUCU	23962
797	GGGGCCUU G GAUGGACA	5587	UGUCCAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCCCCC	23963
798	GGGGCUUG G AUGGACAG	5588	CUGUCCAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGCCCC	23964
801	GCUUGAU G GACAGCAC	5589	GUGCUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCAAGC	23965
802	CUUGGAUG G ACAGCACC	5590	GGUGCUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCCAAG	23966
813	AGCACCAA G GCCACAAG	5591	CUUGUGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGGUGCU	23967
821	GGCCACAA G GUUUUUGG	5592	CCAAUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUGGCC	23968
828	AGGUUUU G GUAAAAC	5593	GUUUUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUAACU	23969
838	UAAAACAA G AAUCAUGG	5594	CCAUGAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUUUA	23970
845	AGAUCAU G GAUCUUGA	5595	UCAAGAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGAUUCU	23971
846	GAUUAUG G AUUCUUGAG	5596	CUCAAGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUGAUUC	23972
852	UUGGAUUU G AGGAACCC	5597	GGGUUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAUUCCA	23973
854	GAUCUUGA G GAACCTUG	5598	CAGGUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAAGAUC	23974
855	AUCUUGAG G AACCCUGG	5599	CCAGGGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCAAGAU	23975
862	GGAACCCU G GAUAUGCC	5600	GGCAUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGUUCC	23976
863	GAACCCUG G AAUAGCCC	5601	GGGCAUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGGUUUC	23977
873	UAUGCCCU G GUGGCAGC	5602	GCUGCCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGGCAUA	23978

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876	GCCCGGU G GAGCGGU	5603	ACGGCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG ACCAGGC	23979
889	CCGUCAU G GUUGGUG	5604	CAUCCAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG AUAGCGG	23980
893	CAUUGGU G GAUGCUG	5605	CAAGCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG AACCAUG	23981
894	AUUGGU G AUGCUUG	5606	CCAAGCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG CAACCAU	23982
901	GGAUGCU G GAGCAAC	5607	GUUGCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG AGCAUCC	23983
902	GAUGCUG G GAGCAACA	5608	UGUUGCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG CAAGCAUC	23984
903	AUGCUUG G AGCAACAC	5609	GUGUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG CCAAGCAU	23985
918	ACCAUGCA G AGAGUUG	5610	ACAACUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG UGCAUGU	23986
920	CAUGCAG G AGUUGUG	5611	ACACAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG UUGCAUG	23987
948	UUGCUUU G GUGGCCC	5612	GGGGCAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG AAAGCA	23988
951	CUUUGU G GCCCAGC	5613	GCGGCGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG ACCAAAG	23989
979	ACUGCCU G GAUGAGC	5614	GCUCAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG AAGGCAU	23990
980	CUGCCU G AUAAGCA	5615	UGCUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG CAAGCAG	23991
984	CUUGGAU G AGCAACAG	5616	CUGUUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG AUCCAAG	23992
992	GAGCAACA G AGACUUCU	5617	AGAAGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG UGUUGCUC	23993
994	GCAACAGA G ACUUCUG	5618	CAAGAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG UCUGUUGC	23994
1002	GACUUCU G GAAGGAGU	5619	ACUCCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG AAGAAUC	23995
1003	ACUUCU G AAGGAGU	5620	CACUCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG CAAGAAGU	23996
1006	UCUUGGA G AGUGUCU	5621	AGACUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG UCCAAGA	23997
1007	CUUGGAG G AGUGUCU	5622	CAGACAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG CUCCAAG	23998
1015	GAGUGUCU G GAGCAACA	5623	UGUUGUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG AGACACUC	23999
1016	AGUGUCU G AGCAACAU	5624	AUGUUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG CAGACAU	24000
1025	AGCAACAU G GGUGGAU	5625	AAUCCAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG AUGUUGU	24001
1026	GCAACAU G GUGGAU	5626	AAAUCCAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG CAUGUUGC	24002
1029	ACAUGGU G GAUUGGU	5627	ACCAAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG ACCCAUG	24003
1030	CAUGGGU G AUUUGGU	5628	AACCAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG CACCAUG	24004
1035	GUGGAU G GUUCUGA	5629	UAGAGAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG AAUCCAC	24005
1042	UGUUCUC G AAGGCGAC	5630	GUCGCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG GAGAACCA	24006
1045	UUCUGAA G GCGACAG	5631	GCUGUCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG UUCGAGAA	24007
1048	UCGAAGC G ACAGCUC	5632	GCAGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG GCCUUGA	24008
1059	AGCUGGU G ACUAUCAU	5633	AUGAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG ACGAGCU	24009
1074	AUGUCUA G GACAAGC	5634	GGUUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG UAGACAU	24010
1075	UGUCUAG G ACAAGCCU	5635	AGGUUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG CUUAGACA	24011
1090	CUACCAU G AUGUGAG	5636	CUACAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG GAUGUAG	24012
1095	UAUGGU G AAGAUAU	5637	AUCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG ACAUGAU	24013
1098	GAUGUGA G AUGAUGAA	5638	UUAUCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG UCAUACU	24014
1101	GUGAAGU G AUGAAU	5639	AUAUCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG AUUUCAC	24015
1104	AAGAUAU G AAUAUGA	5640	UCCAUAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG AUCAUUCU	24016
1110	AUGAAU G GAGCGGU	5641	ACCGCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG AUUAUCAU	24017
1111	UGAAUUG G AGGCGUC	5642	GACGCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGG CAUAUCA	24018

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1113	AAUAUGGA G GCGGUCAA	5643	UUGACCGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCCAUUUU	24019
1116	AUGGAGGC G GUCAACGU	5644	AGGUUAGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GCCUCCAU	24020
1125	GUCAACCU G GCAGAGGU	5645	ACCUCUGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGGUUAGC	24021
1129	ACCUGGCA G AGGUCCGC	5646	GCGACCUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGCCAGGU	24022
1131	CUUGGAGA G GUCCGCAG	5647	CUGCGGAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCUGCCAG	24023
1152	UGCUAUUU G GCUACCGU	5648	ACGGUAGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAUAUGCA	24024
1165	CCGUACGC G AUCUCUCC	5649	GGAGAGUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GCGACCGG	24025
1191	CGUGUCCC G ACCAUGGG	5650	CCCAUGUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GGGCACGC	24026
1197	CCGACCAU G GGAGAAGC	5651	GCUCUCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUGGUCGG	24027
1198	CGACCAUG G GAGAAGCU	5652	AGCUUCUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAUGGUCG	24028
1199	GACCAUGG G AGAAGCUC	5653	GAGCUUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CCAUGGUC	24029
1201	CCAUGGGA G AAGUCAC	5654	GUGAGCUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCCCAUGG	24030
1213	CUACACAU G ACARACGU	5655	ACGUUUGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUUGUGAG	24031
1225	AACGUGCU G ACCCAGCU	5656	AGCUGGGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGCACGUU	24032
1244	UGUGUGCA G ACAAGGAG	5657	CUCUUGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGCACACA	24033
1249	GCAGACAA G GAGUGGUG	5658	CACACUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUGUCUGC	24034
1250	CAGACAAG G AGUGUGG	5659	CCACCACU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUUGUCUG	24035
1254	CAAGGAGU G GUGGACAG	5660	CUGUCCAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACUCCUUG	24036
1257	GGAGUGGU G GACAGGGG	5661	CCCUGUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACCACUCC	24037
1258	GAGUGGUG G ACAGGGGC	5662	GCCTCUGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CACCACUC	24038
1262	GUUGACA G GGGCUGGG	5663	CCACGCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGUCCACC	24039
1263	GUGGACAG G GGCUGGGG	5664	CCCAGCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUGUCCAC	24040
1264	UGGACAGG G GCUGGGGC	5665	GCCTCAGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CGUGUCCA	24041
1268	CAGGGGCU G GGGCAACG	5666	CGUUGCCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGCCCCUG	24042
1269	AGGGGCU G GGCAACGG	5667	CCGUUGCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAGCCCCU	24043
1270	GGGGCUGG G GCACAGGC	5668	GCCTUUGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CCAGCCCC	24044
1276	GGGCAAC G GCUGCGGA	5669	UCCGACGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUUGCCCC	24045
1282	ACGGCUGC G GAUAUUUU	5670	AAUAUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GCAGCCGU	24046
1283	CGGCTUGG G AUUAUUUG	5671	CAUAUAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CGCAGCCG	24047
1291	GAUAUUUU G GCMAAGGA	5672	UCCUUGGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAUAUUC	24048
1297	UUGGCAAA G GAAGCAUU	5673	AAUGCUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUGGCCAA	24049
1298	UGGCAAG G ACACAUUG	5674	CAUUGCUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUUUGCCA	24050
1306	GAAGCAU G ACACAUUG	5675	GCAUGUUG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUUGCUUC	24051
1338	UCUACCAA G GCMAUAGG	5676	CCUAUUGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUGGUAGA	24052
1345	AGGCAUA G GAAGAAC	5677	GGUUCUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UAUUGCCU	24053
1346	GGCAUAG G AAGAACCA	5678	UGGUUCUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUUUGGCC	24054
1349	AAUAGGAA G AACCAUCU	5679	AGAUUGUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUCUUAUU	24055
1359	ACCAUCUU G AAAGAGAA	5680	UUCUCUUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAGUUGUU	24056
1363	UCUUGANA G AGAUAUUC	5681	GAUAUUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUUCAAGA	24057
1365	UUGAAGAA G AAUAUCAA	5682	UUGAUUUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCUUUCAA	24058

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1378	UCAAAGUAC G AAGUGGCC	5683	GGCCACUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUACUUGA	24059
1383	UACGAAGU G GCCAUUUU	5684	AAAAGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUCGUA	24060
1399	UUGUCCAU G GACCAACU	5685	AGUUGGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGGACAA	24061
1400	UGUCCAU G ACCAACUA	5686	UAGUUGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUGGACA	24062
1413	ACUACUGU G GAGUCGCA	5687	UGCGACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAGUAGU	24063
1414	CUACUGU G AGUCGCAC	5688	GUGGACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACAGUAG	24064
1423	AGUCGCAC G GAAACUAC	5689	GUAGUUDC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGCGACU	24065
1424	GUCGCACG G AAACUACU	5690	AGUAGUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGCGAC	24066
1440	UCCACACA G GUUGGAGC	5691	GUCCCAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGUGGA	24067
1444	CACAGGU G GAGCCACU	5692	AGUGGCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACCUUGU	24068
1445	ACAGGUU G AGCCACUC	5693	GAGUGGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACCCUG	24069
1455	GCCACUCA G GCAGGGAG	5694	CUCCUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAGUGGC	24070
1459	CUCAGGCA G GGAGAUUC	5695	GAUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCUGAG	24071
1460	UCAGGCAG G GAGAUUCA	5696	UGAUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGCCUGA	24072
1461	CAGGCAGG G AGAUUCAG	5697	CUGAAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGCCUG	24073
1463	GGCAGGGA G AUUCAGCA	5698	UGUGAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUGGCC	24074
1482	ACUCCUGC G GCGCCUUC	5699	GAAGCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCAGGAGU	24075
1507	UAAAGUU G GAGAUUAV	5700	AUAUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGGUUUA	24076
1508	AAAGUUG G AGAAUAV	5701	CAUAUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGCUUU	24077
1510	AGCUUGGA G AAUAUGGA	5702	UCCAUAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAAGCU	24078
1516	GAGAAUAV G GAGAGGUG	5703	CACUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUAUUCUC	24079
1517	AGAAUUG G AGAGGUGA	5704	UCACUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUAUUCU	24080
1519	AAUAUGGA G AGGUGACA	5705	UGUCACCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAUAUU	24081
1521	UAUGGAGA G GUGACAGU	5706	ACUGUCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCUUAU	24082
1524	GGAGAGGU G ACAGUGGA	5707	UCCACUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUCUCC	24083
1530	GUGACAGU G GACUGUGA	5708	UCACAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGUCAC	24084
1531	UGACAGUG G ACUGUGAA	5709	UUCACAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUGUCA	24085
1537	UGGACUGU G AACCACGG	5710	CCGUGGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAGUCCA	24086
1544	UGAACCCAC G GUCAGGGA	5711	UCCUGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGUUCA	24087
1549	CACGUGCA G GAUUGAC	5712	GUCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGACCCUG	24088
1550	ACGGUCAG G GAUUGACA	5713	UGUCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGACCCU	24089
1551	CGGUCAGG G AUUGACAC	5714	GUUGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUGACCG	24090
1555	CAGGAUU G ACACCAAU	5715	AUUGUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCCUUG	24091
1575	UACUAGU G AUGACUGU	5716	ACAGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGUCCUG	24092
1578	UACUGAU G ACUGUUG	5717	CCAACAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCACGUA	24093
1585	UGACUGU G GAACAAAG	5718	CUUUGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAGUCA	24094
1586	GACUGUG G AACAAAGA	5719	UCUUGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACAGUC	24095
1593	GGACAAA G ACGUUCUU	5720	AAGAAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUC	24096
1602	ACGUUCUU G GUCCAUCG	5721	CGAUGGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGAACGU	24097
1612	UCCAUCGU G AGUGGUC	5722	GAACACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGAUGGA	24098

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1616	UCGUGAGU G GUUCAUGG	5723	CCAUGAAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACUCACGA	24099
1623	UGGUUCAU G GACCUCAA	5724	UUGAGGUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUGAACCA	24100
1624	GGUUCAUG G ACCUCAAC	5725	GUUGAGUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAUGAAC	24101
1640	CCUCCCUU G GAGCAGUG	5726	CACUGGUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAGGAGG	24102
1641	CUCCCUUG G AGCAGUGC	5727	GACUGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAAGGAG	24103
1651	GCAGUGCU G GAAGUACU	5728	AGUACUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGCACUGC	24104
1652	CAGUGCUG G AAGUACUG	5729	CAGUACUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAGCACUG	24105
1664	UACUGUGU G GAGGAACA	5730	UGUUCUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACACAGUA	24106
1665	ACUGUGUG G AGGAACAG	5731	CUGUUCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CACACAGU	24107
1667	UGUGUGGA G GAACAGAG	5732	CUCUGUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCACACA	24108
1668	GUGUGGAG G AACAGAGA	5733	UCUCUGUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCCACAC	24109
1673	GAGGAACA G AGAGACGU	5734	ACGUCUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGUUCCUC	24110
1675	GGAACAGA G AGACGUUA	5735	UAACGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCUGUUC	24111
1677	AACAGAGA G ACGUUAU	5736	AUUAACGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCUCUGUU	24112
1686	ACGUUAU G GAGUUUGA	5737	UCAAACUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUUAACGU	24113
1687	CGUUAUG G AGUUUGAG	5738	CUCAACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAUUAACG	24114
1693	UGAGUUU G AGGAACCA	5739	UGGUUCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAACUCCA	24115
1695	GAGUUUGA G GAACACCA	5740	UGUGGUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCAAACUC	24116
1696	AGUUUGAG G AACCACAC	5741	GUGUGUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCRAACU	24117
1710	CAGGCCAC G AAGCAGUC	5742	GACUGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GUGCGUG	24118
1722	CAGUCUGU G AUAGCAU	5743	AAUGCUAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACAGACUG	24119
1731	AUAGCAU G GGCUCACA	5744	UGUGAGCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAUGCUAU	24120
1732	UAGCAUUG G GCUCACAA	5745	UUGUGAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAUUGCUA	24121
1741	GCUCACAA G AGGAGCU	5746	AGUCUCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUGUGAGC	24122
1743	UCACAAGA G GGAGCUCU	5747	AGAGCUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCUGUGA	24123
1744	CACAAGAG G AGCUCUG	5748	CAGAGCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCUUGUG	24124
1745	ACAAGAGG G AGCUCUG	5749	GCAGAGCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCUCUUGU	24125
1764	CAAGCUTU G GCTUGGAG	5750	GCUCACAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAAGCUUG	24126
1768	CUUUGGCU G GAGCCAUU	5751	AAUGGCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGCCAAAG	24127
1769	UUUGGCUU G AGCCAUUC	5752	GAAUGGCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAGCCAAA	24128
1782	AUUCUGU G GAUUUUUC	5753	GAUAUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACAGGAUU	24129
1783	UUUCUGUG G AAUUUUA	5754	UGAAAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CACAGGAA	24130
1809	GUCAAGU G AGUCGGG	5755	CCCGACGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AACUUGAC	24131
1815	UUGACGUC G GUUCAUU	5756	AAUAGCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GACGUCAA	24132
1816	UGACGUCG G GUCAUUG	5757	CAAUAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CGAGCUCA	24133
1824	GGUCAUUG G AAGUUGAG	5758	CUACACUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAUUGACC	24134
1832	GAAGUGUA G AGUGAAGA	5759	UCUACAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UACACUUC	24135
1836	UGUAGAGU G AAGAUGGA	5760	UCCAUCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACUCUACA	24136
1839	AGAGUGAA G AUGGAANA	5761	UUUUCCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUCACUCU	24137
1842	GUGAGAU G GAUAAAUU	5762	AAUUUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUCUUCAC	24138

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1843	UGAAGAU G AAAAUAUG	5763	CAAUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCUUA	24139
1857	UUGCAGUU G AAGGAAC	5764	GUUCCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACUGCAA	24140
1860	CAGUUGA G AGAACAC	5765	GUUUUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUUAUG	24141
1861	AGUUGAG G GAACAAC	5766	GUUUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCAAUCU	24142
1862	GUUGAAG G AACACCU	5767	AGUUGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUCAAAC	24143
1873	CAACUUAU G GCGUCUGU	5768	ACAGACGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUAGGUUG	24144
1887	UGUCAA G GCUUCA	5769	UUAAAAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAACA	24145
1903	AGUUUUU G GACUCCC	5770	GGAGUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGAACA	24146
1904	GUUUUUG G GACUCCC	5771	CGGAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGAAC	24147
1905	UUUUUUG G ACUCCGC	5772	GCGGAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAAGAA	24148
1915	UUCGCGA G ACACAGGU	5773	ACUGAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGGGAG	24149
1921	CAGACAC G GUCACGGC	5774	GCGUGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGUCUG	24150
1927	CAGGUCAC G GCACUGUG	5775	CACAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGACUUG	24151
1935	GGCACUGU G GUGUUGGA	5776	UCCAACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAGUGCC	24152
1941	GUGGUGUU G GAUUUGCA	5777	UGCAAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACACCAC	24153
1942	UGUGUUG G AUUGCAG	5778	CUGCAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACACCA	24154
1957	AGUACACU G GCACGGAU	5779	AUCCGUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGUACU	24155
1962	ACUGGCAC G GAUGGACC	5780	GUUCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGCCAGU	24156
1963	CUGGCACG G AUGGACCU	5781	AGGUCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGCCAG	24157
1966	GCACGGAU G GACCUUGC	5782	GCAAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCGUGC	24158
1967	CACGGAUG G ACCUUGCA	5783	UGCAGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCCGUG	24159
1995	UCGUCAGU G GCUUCAU	5784	AUAGAAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGACGA	24160
2004	GCUUCAU G AACGACCU	5785	AGGUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUGAAGC	24161
2008	CAUUGAAC G ACCUAACG	5786	CGUUGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUCAUUG	24162
2022	ACGCCAGU G GGCAGAU	5787	AAUCUGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGGCGU	24163
2023	CGCCAGUG G GCAGAUUG	5788	CAUUCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUGGCG	24164
2027	AGUGGGCA G AUUGUCA	5789	UGACCAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCCCACU	24165
2031	GGCAGAUU G GUCACUGU	5790	ACAGUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCUGCC	24166
2058	GUUUCAGU G GCCACGGC	5791	GCCGUGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGAAAC	24167
2064	GUGGCCAC G GCCAACGC	5792	GCGUUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGCCAC	24168
2076	AACGCUAA G GUCCUGAU	5793	AUCAGGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAGCGUU	24169
2082	AAGGUCCU G AUUGAAU	5794	AAUUCAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGACCUU	24170
2086	UUCUGAUU G AAUUGGAA	5795	UUCCAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUACGA	24171
2091	AUUGAUU G GAACACAC	5796	GUGGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCAAU	24172
2092	UUUGAUU G AACACACC	5797	GGGUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAUCAA	24173
2104	CACCUUUU G GAGACUCA	5798	UGAGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAGGUG	24174
2105	ACCCUUG G AGACUCAU	5799	AUGAGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGGU	24175
2107	CCUUGGA G ACUCAUAC	5800	GUUAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAAAGG	24176
2121	UACAUAGU G GUGGGCAG	5801	CUGCCCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUAUGUA	24177
2124	AUAGUGGU G GGCAGAGG	5802	CCUCUGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCACUUA	24178

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2125	UAGUGUG G GCAGAGGA	5803	UCCUCUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACCACUA	24179
2129	UGUGGCA G AGGAGAAC	5804	GUUCUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCCACC	24180
2131	UGGGCAGA G GAGAACAA	5805	UUGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGCCCA	24181
2132	GGGCAGAG G AGAACAC	5806	UUGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGCCCC	24182
2134	GCAGAGGA G AACACAG	5807	CUGUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUCUGC	24183
2142	GAACAA G AUCAUCA	5808	UGAUUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUGUUC	24184
2156	UACCAUU G GCACAAGU	5809	ACUUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUGUGA	24185
2167	ACAAGUCU G GAAGCAGC	5810	GTUGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGACUUGU	24186
2168	CAAGUCU G AAGCAGCA	5811	UGCUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGACUUG	24187
2179	GCAGCAU G GCAAAGCC	5812	GGCUUUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUGCUGC	24188
2206	CCUCAAA G GAGCGAG	5813	CUGCGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUGAGG	24189
2207	CCUCAAG G AGCGCAG	5814	UCUGGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUGAGG	24190
2214	GGAGCGA G AGACUAGC	5815	GUAGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCGUCC	24191
2216	AGCGCAGA G ACUAGCCG	5816	CGGCUAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGCGCU	24192
2230	CGCUCUA G GAGACACA	5817	UGUGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGAGCGG	24193
2231	CGCUCUAG G AGACACAG	5818	CUGUGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUAGAGCG	24194
2233	CUCUAGA G ACACAGCU	5819	AGCUGUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUAGAG	24195
2243	CACAGCUU G GACUUUUG	5820	CAAAGUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCUGU	24196
2244	ACAGCUUG G GACUUUGG	5821	CCAAAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCUGU	24197
2245	CAGCUUGG G ACUUUGGA	5822	UCCAAAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAAGCUG	24198
2251	GGGACUUU G GAUCAGUU	5823	AACUAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAGUCCC	24199
2252	GGACUUUG G AUCAGUUU	5824	CAAUUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCC	24200
2260	GAUCAGUU G GAGGGUUG	5825	CACCCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACUAGU	24201
2261	AUCAGUUU G AGGGUUGU	5826	ACACCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAUAGU	24202
2263	CAGUUUGA G GGGUUGUC	5827	GAACACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAAACU	24203
2264	AGUUGGAG G GGUGUUCA	5828	UGAACACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCAACU	24204
2265	GUUGGAGG G GUGUUCAC	5829	GUGAACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCAAC	24205
2281	CCUCAGUU G GGAAGGCU	5830	AGCCTUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACUGAGG	24206
2282	CUCAGUUG G GAAGGCUU	5831	CAGCCTUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACTUGG	24207
2283	UCAGUUUG G AAGGCUUG	5832	ACAGCCTU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACTUGA	24208
2286	GUUGGANA G GCUGUCCA	5833	UGGACAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCAAC	24209
2305	AAGUGUUC G GAGGAGCA	5834	UGCUCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAACACUU	24210
2306	AGUGUUGG G AGGAGCAU	5835	AUGCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAACACU	24211
2308	UGUUCGGA G GAGCAUUC	5836	GAAUGCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGAACA	24212
2309	GUUGCGAG G AGCAUUC	5837	GGAUGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCGAAC	24213
2329	CACUGUUC G GAGGCAUG	5838	CAUGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAACAGUG	24214
2330	ACUGUUGG G AGGCAUGU	5839	ACAUGCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAACAGU	24215
2332	UGUUCGGA G GCAUGUCC	5840	GGACAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGAACA	24216
2342	CAUGUCCU G GAUAACGC	5841	GGUUAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGACUUG	24217
2343	AUGUCCUG G AUAACGCA	5842	UGCGUUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGGACAU	24218

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2353	UACGCAA G GAUUGCUG	5843	CAGCAUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGCGUUA	24219
2354	AACGCAAG G AUUGCUGG	5844	CCAGCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUGCGUU	24220
2361	GGAUUGCU G GGGGCUUC	5845	AGAGCCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCAAUCC	24221
2362	GAUUGCUG G GGGCUCUC	5846	GAGAGCCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGCAUUC	24222
2363	AUUGCUGG G GGCUCUCC	5847	GGAGAGCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAGCAU	24223
2364	UUGCUGG G GCUUCUCU	5848	AGGAGAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCCAGCA	24224
2378	CTUGUUGU G GAUUGGCA	5849	UGCCCAUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAACAGG	24225
2379	CUGUUGUG G AUGGGCAU	5850	AUGCCCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACACAG	24226
2382	UUGUGGAU G GCAUCA	5851	UUGAUGCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCCACAA	24227
2383	UUGUGGAU G GCAUCAU	5852	AUUGAUGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCCACA	24228
2398	AUGCUCGU G AVAGGUCC	5853	GGACCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACGAGCAU	24229
2402	UCGUGUA G GUCCAUG	5854	CUAUGGAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAUCACGA	24230
2431	UCGAGUU G GAGGAGUU	5855	AACUCCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACUGCGA	24231
2432	CGCAGUUG G AGGAGUUC	5856	GAACUCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAACUGCG	24232
2434	CAGUUGGA G GAGUUCUG	5857	CAGAACUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAACUG	24233
2435	AGUUGGAG G AGUUCUGC	5858	GCAGAAUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCCAACU	24234
2457	CUCUCCGU G AACGUGCA	5859	UGCACGUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACGGAGAG	24235
2470	UGCACGCU G ACACUGGG	5860	CCCAGUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCGUGCA	24236
2476	CUGACACU G GGUGUGCC	5861	GGCAGACC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUGUCAG	24237
2477	UGACACU G GUUGGCCA	5862	UGGCACAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGUGUCA	24238
2488	GUGCCAU G ACAUCACG	5863	GCUGAUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAUGGCAC	24239
2498	CAUCAGCC G GCAAGAGC	5864	GCUCUUGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGCUGAUG	24240
2503	GCCGGCNA G AGCUGAGA	5865	UTUCAGCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGCGGCG	24241
2508	CAAGAGCU G AGAUGUGG	5866	CCACAUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCUCUUG	24242
2510	AGAGCUGA G AUGUGGAA	5867	UUCCAUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAGUCUC	24243
2515	UGAGAUGU G GAAGUGGA	5868	UCCACUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAUCUCA	24244
2516	GAGAUGUG G AAGUGGAG	5869	CUCCACUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACAUCUC	24245
2521	GUGGAAGU G GAGUGUUC	5870	GAACACUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUCCAC	24246
2522	UGGAAGUG G AGUGUUCA	5871	UGAACACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACUCCCA	24247
2539	UACACAAU G AUGUGGAG	5872	CUCCACAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUGUGUA	24248
2544	AUAGAUGU G GAGGCUUG	5873	CAAGCCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAUCAUU	24249
2545	AUGAUGUG G AGGCUUGG	5874	CCAAGCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACAUCAU	24250
2547	GAUGUGGA G GCUUGGAU	5875	AUCCAAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCACAUC	24251
2552	GGAGGCUU G GAUGGACC	5876	GGUCAUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCCUCC	24252
2553	GAGGCUUG G AUGGACCG	5877	CGGUCCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAGCCUC	24253
2556	GCUGGAU G GACCGGUA	5878	UACCGUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCCAAGC	24254
2557	CUUGGAUG G ACCCGUAC	5879	GUACCGGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCCAAG	24255
2561	GAUGGACC G GUACAAUG	5880	ACUUGUAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGUCCAU	24256
2578	AUUACCCU G AAACGCCA	5881	UGGCGUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGUAU	24257
2590	CGCCACNA G GCCUAGCC	5882	GGCUAGGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGUGGCG	24258

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2601	CUAGCCAA G AUCAUUA	5883	UGAAUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGGCUAG	24259
2610	AUCAUUA G AAAGCUA	5884	UGAGUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAAUGAU	24260
2622	GUCAUAA G GAAGGAGU	5885	ACUCCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAUGAGC	24261
2623	CUCAUAG G AAGGAGUG	5886	CACUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUAUGAG	24262
2626	AUAAGGAA G GAGUGUGC	5887	GCACACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUUUAU	24263
2627	UAAGGAAG G AGUGUGCG	5888	GCACACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCCUUA	24264
2635	GAGUGUG G GUCUACGA	5889	UCGUAGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCACACUC	24265
2642	CGGUCUAC G AUCAGUUU	5890	AAACUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUAGACCG	24266
2654	AGUUUCCA G ACUGGAGC	5891	GCUCACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGAAACU	24267
2658	UCCAGACU G GAGCAUCA	5892	UGAUGCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCUGGA	24268
2659	CCAGAGU G AGCAUCA	5893	UUGAUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUCUGG	24269
2672	UCAAAUGU G GGAAGCAG	5894	CUUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUUGA	24270
2673	CAAAUGUG G GAAGCAGU	5895	ACUGCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACAUIUG	24271
2674	AAAUGUG G AAGCAGUG	5896	CACUGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCACAUUU	24272
2682	GAAGCAGU G AAGGACGA	5897	UCGUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGCUUC	24273
2685	GCAGUGAA G GACGAGCU	5898	AGUCGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCACUGC	24274
2686	CAGUGAAG G ACGAGCUG	5899	CAGCUCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCACUG	24275
2689	UGAAGGAC G AGCUGAAC	5900	GUUCAGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCCUUA	24276
2694	GACGAGU G AACACUCU	5901	AGAGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCGUC	24277
2706	ACUCUUU G AAGGAGAA	5902	UUCUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAAGAU	24278
2709	CUUUUANA G GAGAAUGG	5903	CCAUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAAAAG	24279
2710	UUUUGAAG G AGAAUGGU	5904	ACCAUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCAANA	24280
2712	UUGAAGGA G AAUGUGU	5905	ACACAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUUCAA	24281
2716	AGGAGAAU G GUGUGGAC	5906	GUCCACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCUCCU	24282
2721	AAUGGUGU G GACCUUAG	5907	CUAAGGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACCAUU	24283
2722	AUGGUGU G ACCUUAU	5908	ACUAAAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACACCAU	24284
2736	AGUGUCGU G GUUGAGAA	5909	UUCUCAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGACACU	24285
2740	UCGUGGUU G AGAAACAG	5910	CUGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACACGA	24286
2742	GUGGUUGA G AAACAGGA	5911	UCCUGUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAACCAC	24287
2748	GAGAAACA G GAGGAAU	5912	AUUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUCUC	24288
2749	AGAAACAG G AGGGAUG	5913	CAUUCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGUUUCU	24289
2751	AAACAGGA G GGAUUGUA	5914	UACAUUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUGUUU	24290
2752	AACAGGAG G GAAUGUAC	5915	GUACAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCUGUU	24291
2753	ACAGGAGG G AAUGUACA	5916	UGUAUUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUCCUGU	24292
2793	GCCACCAG G GAAAUUU	5917	AAUUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGUGGCG	24293
2794	CCACCACG G AAAAUUG	5918	CAUUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGUGG	24294
2802	GAAAAAUU G GAAAUUGG	5919	CCAAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUUUUC	24295
2803	AAAAUUG G AAUUGGC	5920	GCCAUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAUUUUU	24296
2809	UGGAAAUU G GCUUGAAG	5921	CUUCCAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUUCCA	24297
2813	AAUUGGCU G GAAGGCCU	5922	AGGCCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCAAUU	24298

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2814	AUUGGCG G AAGGCCUG	5923	CAGGCCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGCCAAU	24299
2817	GGCUGGAA G GCCUGGGG	5924	CCCCAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAGCC	24300
2822	GAAGCCU G GGGAAAGA	5925	UCUUCCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGCCUUC	24301
2823	AAGGCCUG G GGAAGAG	5926	CUCUUCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGGCCUU	24302
2824	AGGCCUGG G GAAAGAGU	5927	ACUCUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAGCCUU	24303
2825	GGCCUGG G AAAGAGUA	5928	UACUCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCCAGGCC	24304
2829	UGGGGAA G AGUAUUU	5929	AAAUAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUCCCCA	24305
2848	UUGCACCA G AACUCGCC	5930	GGCGAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGUGCAA	24306
2871	ACCUUUG G GUUGAUGG	5931	CCAUAAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAAAGGU	24307
2875	UUUGGUU G AUGGUCCG	5932	CGGACAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACCAAA	24308
2878	UUGUGAU G GUCCGGAG	5933	CUCCGAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCAACCA	24309
2883	GAUGUCC G GAGACCAA	5934	UUGGUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGACCAUC	24310
2884	AUGGUCC G AGACCAAG	5935	CUUGGUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGGACCAU	24311
2886	GUCCCGA G ACCAAGGA	5936	UCCUUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCGGACC	24312
2892	GAGACCA G GAUUGUC	5937	GGACAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGGUUC	24313
2893	AGACCAAG G AAUGUCCG	5938	CGGACAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUGGUUC	24314
2901	GAUUGUC G ACUCAGAA	5939	UUCUGAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGACAUUC	24315
2907	CCGACUA G AAUCGGC	5940	GGCGAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGAGUCGG	24316
2918	UCCGCGU G GAUAGCU	5941	AGCUAUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAGCGCGA	24317
2919	CGCGUUG G AAUAGCU	5942	AAGCUAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAGCGCG	24318
2929	AUAGCUA G AAGUGGAG	5943	CUCCACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAAGCUAU	24319
2934	UUAGAAGU G GAGGAUUU	5944	AAAUCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUUCUAA	24320
2935	UAGAAGU G AGGAUUUU	5945	AAAUCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACUUCUA	24321
2937	GAAGUGA G GAUUUUGG	5946	CCAAAUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCACUUC	24322
2938	AAGUGGAG G AUUUUGGA	5947	UCCAAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCCACUU	24323
2944	AGGAUUU G GAUUUGGU	5948	ACCAAUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAAAUCCU	24324
2945	GGAUUUU G AUUUGGUC	5949	GACCAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAAAUCC	24325
2950	UUGGAUU G GUCUCACC	5950	GGUGAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAAUCCAA	24326
2966	CAGCACU G GAUGUUC	5951	GGAAUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAGUGCUG	24327
2967	AGCACUC G AUGUUCU	5952	AGGAACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGAGUGCU	24328
2976	AUGUUCU G AAGGUACG	5953	CUGACCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGAACAU	24329
2979	UCCUGAA G GUCAGAGA	5954	UCUCUGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCAGGAA	24330
2984	GAAGGUCA G AGAGAGCA	5955	UGUCUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGACUUC	24331
2986	AGGUCAGA G AGAGCAAC	5956	GUUGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUGACCU	24332
2988	GUCAGAGA G AGCAACAC	5957	GUUGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUCUGAC	24333
3001	ACACACU G AAUGUGAC	5958	GUCAAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUUGUGU	24334
3007	CUGAAUGU G ACUCGAAG	5959	CUUCAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAUUCAG	24335
3012	UGUGACUC G AAGAUAU	5960	AUGAUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAGUCACA	24336
3015	GACUCGAA G AUCAUUGG	5961	CCAAUAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCGAGUC	24337
3022	AGAUAUU G GAACGGCU	5962	AGCCGUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUGAUUC	24338

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3023	GAUCAUG G AACGGCUG	5963	CAGCCGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUAUAUC	24339
3027	AUUGGAAC G GUGUGCAA	5964	UUGACAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUCCAUA	24340
3036	GUUGCAA G AACAAUU	5965	AAGUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGACAGC	24341
3045	AACAUAU G GCGAUCCA	5966	UGGAUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGUUGU	24342
3048	AACUUGG G AUGCACAG	5967	CUGUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUAUAUC	24343
3058	UCCACAGU G ACCUGUC	5968	GGACAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGGA	24344
3071	GUCCUAU G GAUUGAAA	5969	UUUAAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUAGGAC	24345
3072	UCCUAUUG G AUUGAAG	5970	UUUUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUAUAUC	24346
3076	AUUGGAU G AAGCAGG	5971	CCUGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCCAUA	24347
3083	UGAAAGCA G GUCUUAUG	5972	CAUUGAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUUUA	24348
3091	GGCUCAAU G AUACGUGG	5973	CCACGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUGAGCC	24349
3098	UGAUACGU G GAAGCUUG	5974	CAAGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUAUAUC	24350
3099	GAUACGUG G AAGCUUGA	5975	UCAAGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACGUUUC	24351
3106	GGAAGCUU G AAGGGCA	5976	UGCCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCUUCC	24352
3110	GUUGAAA G GGCAGUUC	5977	GAACUGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCAAGC	24353
3111	CUUGAAG G GCAGUUCU	5978	AGAACUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUAAG	24354
3120	GCAGUUCU G GUGAAGU	5979	ACUACACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAACUGC	24355
3121	CAGUUCUG G GUGAAGUC	5980	GACUACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGAACUG	24356
3124	UUCUGGU G AAGUCAAA	5981	UUUAGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCCAGAA	24357
3143	AUGUAGU G GCCUGAGA	5982	UUUACAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUAUAUC	24358
3148	CGUGGCU G AGACGCAU	5983	AUGGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGCCAGC	24359
3150	UGGCCUGA G ACGCAUAC	5984	GUUUGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAGGCCA	24360
3164	UACCUUGU G GGGCGAUG	5985	CAUCGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAAGGUA	24361
3165	ACCUUGU G GCGGAUGG	5986	CCAUCGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACAAAGU	24362
3166	CUUGUGG G GCGAUGGA	5987	UCCAUGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCACAAGG	24363
3169	UGUGGGG G AUGGAUUC	5988	GAUCCAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCCACA	24364
3172	GGGCGAU G GAUCCUU	5989	AAGGAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCGCCCC	24365
3173	GGGCGAU G AUUCCUUG	5990	CAAGGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCGCCC	24366
3181	GAUCCUU G AGAGUGAC	5991	GUCACTU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGAUUC	24367
3183	AUCCUUGA G AGUGACUU	5992	AAGUCACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAAGGAU	24368
3187	UUGAGAGU G ACUUGAUA	5993	UAUCAAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCUCAA	24369
3192	AGUGACUU G AUAAUACC	5994	GGUAUUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGUACU	24370
3210	GUCACACU G GCGGGACC	5995	GGUCCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGUAC	24371
3213	ACACUGG G GGAACACG	5996	CGUGUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCAGUGU	24372
3214	CACUGGG G GACCACGA	5997	UUGUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCCAGUG	24373
3215	ACUGGGG G ACCACGAA	5998	UUCUGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGCCAGU	24374
3221	GGGACCAC G AAGCAUUC	5999	GAUUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGUCCC	24375
3236	UCACAAUC G GAGACCTUG	6000	CAGGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUUGUGA	24376
3237	CACAAUG G AGACCTUG	6001	CCAGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAUUGUG	24377
3239	CAAUCCGA G ACCUGGUG	6002	ACCCAGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGAUUG	24378

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3244	GGAGACCU G GGUACAAG	6003	CUUGUACC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGGUUCC	24379
3245	GAGACCU G GUACAAGA	6004	UUUUUAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAGGUUC	24380
3252	GGGUACAA G ACACAAA	6005	UUUUUGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUGUACCC	24381
3264	CAAAACCA G GCGCCAU	6006	CAUGGGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGGUUUG	24382
3265	AAAACCA G GCGCCAU	6007	CAUGGGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUGUUUU	24383
3272	GGGCCCAU G GAGCAG	6008	CUUCGUCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUGGGCC	24384
3273	GGCCCAU G GACGAAG	6009	CUUCGUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAUGGGC	24385
3274	GGCCCAU G ACGAAGC	6010	GCUUUGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CCAUGGC	24386
3277	CAUGGAC G AAGGCCG	6011	CCGGCCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUCCAU	24387
3280	GGGACGAA G GCGGGUA	6012	UACCGGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUCGUCC	24388
3284	GGAAGCC G GUAGAGA	6013	UCUUAAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GGCUCU	24389
3285	GAAGGCC G GUAGAGU	6014	AUCUUAAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CGGCUUC	24390
3289	GCGGGUA G AGAUAG	6015	GUCAUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UACCGGC	24391
3291	GCGGUAGA G AUUACU	6016	AAGUCAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCUACCG	24392
3295	UAGAGAU G ACUUCGU	6017	AUCGAAGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUCUCUA	24393
3301	UUGACUUC G AUUACUC	6018	GCAGUAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GAAGUCA	24394
3313	ACUGCCA G GAACUAC	6019	CGUAGUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGGCAGU	24395
3314	GUGCCAG G AACUACG	6020	CCGAGUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUGGGCAG	24396
3321	GUAACUAC G GUCACCU	6021	AGGUGAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUAGUUC	24397
3330	GUCACCU G AGUGAG	6022	CUUCACU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGGUGAC	24398
3334	CCUAGAG G AGAGUC	6023	GCAGUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACUCAGG	24399
3336	CUGAGUGA G AGCUGCG	6024	CCGACGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCACUCAG	24400
3343	AGAGUUC G GACACCU	6025	ACGUGUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GCAGUCU	24401
3344	GAGCUGG G ACACCGU	6026	CACGUGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CGCAGUC	24402
3352	GACACCGU G GACCUCC	6027	GGCAGUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACAGGUC	24403
3353	ACACCGU G ACCUGCA	6028	UGGACGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CACGGUG	24404
3376	CCACACA G AGAGCGA	6029	UCCGUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGUGUGG	24405
3378	ACCACAGA G AGCGGAA	6030	UUUCGCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCUUGUGU	24406
3382	CAGAGAGC G GAAAGU	6031	CAACUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GCUCUCU	24407
3383	AGAGAGC G AAAGUUA	6032	UCAACUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CGUCUCU	24408
3390	GAAAGUU G AUAACGA	6033	UCUGUUA GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AACUUUC	24409
3397	UGAUAACA G AUUGUUC	6034	GCACCAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGUUAUCA	24410
3401	AACAGAU G GUGCUGA	6035	UGCAGAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAUCUGU	24411
3410	GUGCUGCA G GAGCUGA	6036	UGCAGUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGCAGCAC	24412
3411	UGCUGAG G AGCUGAC	6037	GUGACGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUGCAGCA	24413
3445	ACCAACU G ACAGCGC	6038	GCGCUGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGUUUGU	24414
3451	CUGACAGC G GCUUGUG	6039	CCACAGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GCUUGCAG	24415
3458	CGGCGUU G GUAUGUA	6040	UACCAUAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AACAGCCG	24416
3463	GUUGUAU G GUAUGAG	6041	CUCAUAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUACCAAC	24417
3468	UAUGUAU G GAGUACG	6042	CUGAUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUACCAUA	24418

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3469	AUGGUAUG G AGAUCAGA	6043	UCUGAUCU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CAUACCAU	24419
3471	GGUAUGGA G AUCAGACC	6044	GGUGUAU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UCCAUACC	24420
3476	GGAGAUCA G ACCACAGA	6045	UCUGUGGU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UCCAUACC	24421
3483	AGACCACA G AGACAUGA	6046	UCAUGUCU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UGUGGUCU	24422
3485	ACCACAGA G ACAUGAUG	6047	CAUCAUGU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UCUUGUGU	24423
3490	AGAGACAU G AUGAAAG	6048	CUUUCAU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AUGUCUCU	24424
3493	GACAUGAU G AAAAGACC	6049	GGUCUUUU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AUCAUUGC	24425
3498	GAUGAARA G ACCCUCGU	6050	ACGAGGCU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UUUUCAUC	24426
3519	UCACAAGU G AAUGCUUA	6051	UAAGCAU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG ACUUGUGA	24427
3535	AUAUUGCU G AUAUGAUU	6052	AAUCAUUA GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AGCAUUAU	24428
3540	GCUGAUUA G AUUGACCC	6053	GGUCAAU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AUAUCAGC	24429
3544	AUAUGAUU G ACCCUUUU	6054	AAAGGCU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AAUCAUUA	24430
3558	UUUCAGUU G GGCUCUCU	6055	AGAAGGCC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AACUGAAA	24431
3559	UUCAGUUG G GCUUCUCU	6056	CAGAAGGC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CNAUCUAA	24432
3567	GGCCUUCU G GUCGUGUU	6057	AACACGAC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AGAAGGCC	24433
3579	GUGUUCUU G GCCACCCA	6058	UGGUGGCC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AAGAACAC	24434
3588	GCCACCCA G GAGGUCCU	6059	AGGACUUC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UGGGUGGC	24435
3589	CCACCCAG G AGGUCCUU	6060	AAGGACCU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CUGGUGG	24436
3591	ACCCAGGA G GUCCUUG	6061	CGAAGGAC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UCCUGGUU	24437
3603	CUUCGCA G AGGUGGAC	6062	GUGACCUU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UUGCGAAG	24438
3605	UUCGCAAG G GUGGACAG	6063	CUGUCCAC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UCUUGCGA	24439
3608	CAAGAGGU G GACAGCCA	6064	UGGCUUUC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG ACCUCUUG	24440
3609	AAGAGGUG G ACAGCCAA	6065	UUGGCUUG GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CACCUCUU	24441
3618	ACAGCCNA G AUCAGCAU	6066	AUGCUGAU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UUGGCUUG	24442
3639	GCUAUACU G AUUGCUCU	6067	AGAGCAAU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AGUAUAGC	24443
3657	CUAGUCU G GUGUUUG	6068	CCAAACAC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AGGACUAG	24444
3664	UGGUGUUU G GGGGCAUU	6069	AAUGCCCC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AAACACCA	24445
3665	GGUGUUUG G GGGCAUUA	6070	UAUAGCCC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CAAACACC	24446
3666	GUGUUUG G GGCATUAC	6071	GUAAUCCC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CCAAACAC	24447
3667	UGUUUGG G GCAUUAU	6072	AGUAUUGC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CCCAAACA	24448
3682	CUUACACU G AUGUGUUA	6073	UAACACAU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AGUGUAG	24449
3705	GUCAUCUU G GUGGGGGC	6074	GCCCCAC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG AAGAUAGC	24450
3708	AUCUUGU G GGGGCAGC	6075	GTUGCCCC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG ACCAAGAU	24451
3709	UCUUGUG G GGGCAGCU	6076	AGCUGCCC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CACCAGGA	24452
3710	CUUGUGG G GGCAGCUU	6077	AAGUGGCC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CCACCAAG	24453
3711	UUGGUGG G GCAGCUUU	6078	AAAGUUC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CCCACCAA	24454
3724	CUUUCGA G AAUCUAAU	6079	UAUAGUUC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG UCCGAAAG	24455
3735	UCUAAUUC G GGAGGAGA	6080	UCUCUCC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG GAUUAAGA	24456
3736	CUAAUUCG G GAGGAGAC	6081	GUCUCUUC GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CGAAUUAAG	24457
3737	UAAUUCG G AGGAGACG	6082	CGUCUCCU GGA GCCGUUAGGC UCCUUCUACAGGA GCCGUUAGGC UCCGGG CCGAAUUA	24458

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3739	AUUCGGGA G GAGACGUG	6083	CACGUCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCCGAAU	24459
3740	UUCGGAG G AGACGUGG	6084	CCAGUCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCCCGAA	24460
3742	CGGAGGA G ACBGGUA	6085	UACACGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUCCCG	24461
3747	GGAGACGU G GUACACUU	6086	AAGUUAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACGUUCCG	24462
3756	GUACACUU G GCGUCAU	6087	AUGAGCG GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUGUAC	24463
3765	GCGUCAU G GCGACCUU	6088	AAGGUCG GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGAGCGC	24464
3768	CUAUAGC G ACCUCAA	6089	UUGAAGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCCAUAGG	24465
3777	CUAUGCA G AUACAACC	6090	GGUUGAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUAGAAGU	24466
3795	GUGUUAU G GUGGCAUC	6091	GAUGCCG GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUAAACAC	24467
3798	UUUAUGU G GCAUCGUU	6092	AACGAUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACCAUAAA	24468
3816	CUCAAGC G AGAUGGAC	6093	GUCCAUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCUUUGAG	24469
3818	CAAAGGA G AUGGACCA	6094	UGGUCCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCGUUUG	24470
3821	AGGAGAU G GACCAACC	6095	GUUUGUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCUUGCU	24471
3822	GCGAGUG G ACCAACC	6096	UGGUUGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCUCGC	24472
3831	ACCAAGC G GAGAACA	6097	AUGUUCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGUUGGU	24473
3832	CAAACAG G AGAACAUA	6098	AUUGUCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCGUUGG	24474
3834	AACACAG G AACAUUUU	6099	AAAUUGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCGUUGU	24475
3846	AUUUUGU G AUGUUGGC	6100	GCCAACA GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACAAAUA	24476
3852	UUGAUGU G GCGGCGUG	6101	ACAGCCG GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACAUAUA	24477
3855	AUGUUGC G GCUGUUUU	6102	AAAACAG GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCCACAUA	24478
3873	UUUCAAU G GCUUAUCA	6103	UGAUAAG GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUUGAAA	24479
3883	CUUAUCG G AUGCCGCG	6104	GCGGCAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUGAUAAG	24480
3905	UCUGUCU G GGAGAUCC	6105	GGAUUCC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGAGCAGA	24481
3906	CUGUCUG G GAGAUCCC	6106	GGGAUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGAGCAG	24482
3907	UGUCUUG G AGAUCCCU	6107	AGGGAUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAGAGCA	24483
3909	CUCUGGA G AUCCCGUA	6108	UCAGGGAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCCAGAG	24484
3916	AGAUCUU G AUGUGUUG	6109	CAACACU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGAUUCU	24485
3924	GAUGUUU G AAUUCACU	6110	AGUAAUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACAUAUC	24486
3933	AAUUCACU G GCGUAGC	6111	GCUAACG GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUGAAUU	24487
3936	UCACUGGC G GUAGCUUG	6112	CAAGCUAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCCAGUGA	24488
3944	GUAGUCU G GAUGAUAC	6113	GUUAUAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCUUACC	24489
3945	GUAGCUUG G AUGAUACU	6114	AGUAUAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAGCUAC	24490
3948	GUUGGAU G AUACUGAG	6115	CUCAGUAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCCAAAG	24491
3954	AUGAUACU G AGAGCCAU	6116	AUGGUCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUAUUAU	24492
3956	GAUAUGA G AGCCAUAA	6117	UUUAUGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAGUAUC	24493
3975	UUCACAC G ACAUCAA	6118	UUUAUGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUGUGAA	24494
3987	UCAAAGU G GUUGUUC	6119	GGAAACG GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACGUUGA	24495
4018	UAACACCC G GGCUGAGA	6120	UCUCAGC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGGUGUA	24496
4019	AACACCC G GCUGAGAU	6121	AUCUAGC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGGUGUU	24497
4023	CCCGGCU G AGAUGCUU	6122	AGCAUCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCCCGG	24498

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4025	CGGGCUGA G AUGCUUGA	6123	UCAAGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAGCCCG	24499
4032	AGAUGCUC G AAUCUGGA	6124	UCCAGAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCAUCU	24500
4038	UGAAUCU G AUGUGUA	6125	UACACAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAUUCA	24501
4039	UGAAUCUG G AUGUGUAC	6126	GUACAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGAUUCA	24502
4049	UGUGUACA G GAUACUGC	6127	GCAGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUACACA	24503
4050	GUGUACAG G AUACUGCU	6128	AGCAGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGUACAC	24504
4062	CUGCUGU G AUGGUCGG	6129	CCGACCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAGCAG	24505
4065	CUGUUGAU G GUCGGAU	6130	AUUCGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAACAG	24506
4069	UGAUGGUC G GAUAGGC	6131	GCCUAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACCAUCA	24507
4070	GAUGGUCG G AAUAGGCA	6132	UGCCUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGACCAUC	24508
4075	UCGGAUA G GCAGCUUG	6133	CAAGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUUCGGA	24509
4083	GGCAGCU G AUCAGGGA	6134	UCCUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCUGCC	24510
4088	CUUGAUCA G GGAGAAGA	6135	UCUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAUCAAG	24511
4089	UUGAUUCAG G GAGAAGAG	6136	CUCUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGAUCAA	24512
4090	UGAUCAGG G AGAAGAGG	6137	CCUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUGAUCA	24513
4092	AUCAGGGA G AAGAGGAG	6138	CUCCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUGAU	24514
4095	AGGAGAA G AGGAGUGC	6139	GCACUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUCCU	24515
4097	GGAGAAG G GAGUGCAG	6140	CUGACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUCUC	24516
4098	GAGAAG G AGUGCAGC	6141	GCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUCUC	24517
4116	GCAAAAA G AAGGAGC	6142	GCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUGC	24518
4120	AAAAAGA G GAGCAAGU	6143	ACUUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUUU	24519
4121	AAAGAAAG G AGCAAGUC	6144	GACUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUUUU	24520
4140	CUAUGCUU G GCUCUAGC	6145	GCUAGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCAUAG	24521
4156	CCUACACA G GACUUUC	6146	GAAAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUAGG	24522
4157	CUCAACAG G ACUUUCA	6147	UGAAAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGUUGAG	24523
4173	AACCCCAU G AUCCUUGC	6148	GCAAGGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGGGGU	24524
4186	UUGCUGCU G GACUGAUU	6149	AUACAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCAGCAA	24525
4187	UGCUGCUG G ACUGAUUG	6150	CAUACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGCAGCA	24526
4191	GCUGGACU G AUUGCAUG	6151	CAUGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCCAGC	24527
4201	UUGCAUGU G AUCCCAAC	6152	GUUGGGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUGCAA	24528
4219	GUAACGC G GAUGGCC	6153	GGGCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGUUUAC	24529
4220	UAAACGC G AUGGCCG	6154	CGGGCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGUUUA	24530
4223	ACGGGGAU G GCCCGCAA	6155	UUGCGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCGCGU	24531
4234	CCGCAACU G AAGUGAUG	6156	CAUCACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUUGCGG	24532
4239	ACUGAAGU G AUGACAGC	6157	CGUGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUCAGU	24533
4242	GAUGAGU G ACAGCUGU	6158	ACAGCUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCACUUC	24534
4252	CAGCUGUC G GCCUAUUG	6159	CAUUGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACAGCUG	24535
4273	CCAUCGUC G GAGGGCUG	6160	CAGCCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACGAUGG	24536
4274	CAUCGUC G AGGCGUGG	6161	CCAGCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGACGAUG	24537
4276	UCGUGGGA G GGCUGGCA	6162	UGCCAGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGACGA	24538

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4277	CGUGGAG G GCUGGAG	6163	CUGCCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCCGAG	24539
4281	GGAGGCU G GCAGAGCU	6164	AGCUCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCCUCC	24540
4285	GGCUGGCA G AGCUAGC	6165	GUCAAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCCAGC	24541
4291	CAGAGCUU G ACAUAGC	6166	GUCAAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCUCUG	24542
4297	UUGACAUU G ACUCCAU	6167	CAUGGAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUGCAA	24543
4305	GACUCCAU G GCCAUUCC	6168	GGAUAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGGAGU	24544
4317	AUUCCAU G ACUAUCG	6169	GCGAUAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGGAU	24545
4326	ACTUAUCG G GGCUCAU	6170	AUGAGCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCGAUAGU	24546
4327	CUAUCGG G GGCUCAU	6171	CAUGAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCGAUAG	24547
4328	UAUCGGG G GCUCAUG	6172	ACAUGAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCGCAUA	24548
4350	GCUUUGU G AUUCUGG	6173	CCAGAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACGAAAGC	24549
4357	UGAUUCU G GGAUAUA	6174	UGAUUCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGAAUA	24550
4358	GAUUCUG G GAAUCAA	6175	UUGAUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGAAU	24551
4359	AUUCUGG G AAUAACA	6176	GUUGAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAGAAU	24552
4369	AAUAACA G AUUGUGG	6177	CCACAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUUGAU	24553
4376	AGUAUGU G GAUUGAG	6178	CCCAUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAUUCU	24554
4377	GAUUGUG G AUUGAGG	6179	CUUCAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACAUAU	24555
4381	UGUGGAGU G AGAGAAG	6180	CGUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUCCACA	24556
4383	UGAUUGA G AGAACGGC	6181	GCCGUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAAUCCA	24557
4385	GAUUGAG G AAGGGCG	6182	CGCCGUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUCAAU	24558
4389	GAGAGAC G GCGACAU	6183	AUGUCCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUCUUC	24559
4392	AGAACGGC G GACAUUC	6184	GAAUUGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCCGUUCU	24560
4393	GAACGGC G ACAUUC	6185	GGAUUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGCCGUUC	24561
4403	CAUUCU G GGAAGUG	6186	CACUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGAUUG	24562
4404	AUUCUUG G GAAGUGA	6187	UCACUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGGAU	24563
4405	UUUCUGG G AAAGUGAU	6188	AUCACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAGAAA	24564
4411	GGGAAGU G AUGCAGAA	6189	UUCUGAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUUUCC	24565
4417	GUGAUGCA G AAUAUA	6190	UGUAUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCAUAC	24566
4426	AAAUACA G GCUAGAG	6191	GCUCGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUAUUU	24567
4431	ACAGGCUC G AGCGAAG	6192	CUUUCGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAGCCUGU	24568
4435	GCUCGAG G AAAGAGU	6193	AACUCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCUCGAGC	24569
4439	GAGCGAA G AGUUGAU	6194	CAUCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUCGUC	24570
4444	AAAGAGU G AUGUGCG	6195	CGCACAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACUUUU	24571
4451	UGAUGUC G GCUUGAG	6196	CAUCAAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCACAUCA	24572
4456	UGCGGCUU G AUGAUGAU	6197	AUCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCCGCA	24573
4459	GGCUUGAU G AUGAUGA	6198	UCCAUAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCAAGC	24574
4462	UUGAUGAU G AUGGAAC	6199	GUUCCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCAUA	24575
4465	AUGAUGAU G GAACUUC	6200	GAAUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCAUAU	24576
4466	UGAUGAU G AAACUUC	6201	GGAUUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCAUA	24577
4482	CAGCUCAU G AAUGAUCC	6202	GGAUCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGAGUC	24578

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4486	UCAUGAAU G AUCCAGGA	6203	UCCUGGAU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG AUUCAUGA	24579
4492	AUGAACCA G GAGCACC	6204	AGGUGCUC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG UGGAUCAU	24580
4493	UGAUCCCA G AGCACC	6205	AAGGUGCU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG CUGGAUCA	24581
4502	AGCACC	6206	AUAUCUUC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG AAGGUGCU	24582
4503	GCACCUG G AAGAUAUG	6207	CAUAUCUU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG CAAGGUGC	24583
4506	CCUUGGAA G AUUUGGAU	6208	AUCCAUAU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG UUCAAGG	24584
4511	GAAGAUAU G GAUGCUC	6209	UGAGCAUC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG AUUAUCUUC	24585
4512	AGAUAUG G AUGCUCAG	6210	CUGAGCAU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG CAUAUCUU	24586
4520	GAUGCUC	6211	AGACCAU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG UGAGCAUC	24587
4524	CUCAGAAU G GUGUGUCU	6212	AGACAGAC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG AUUCUGAG	24588
4536	UGUCUCG G AUUAGUC	6213	GCACUAU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG GCGAGACA	24589
4556	CACCCCU G GCAUAUCU	6214	AGAUAU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG AGGGGUG	24590
4557	ACCCCU G GCAUCU	6215	AAGAUUGC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG CAGGGGUG	24591
4579	CAGUAGU G GAUUGG	6216	CCAAAUC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG AACUACUG	24592
4580	AGUAGUG G AUUUGGA	6217	UCCAAAU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG CAACUACU	24593
4586	UGAAUUU G GAUAUCU	6218	GAGUAUC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG AAAAUCCA	24594
4587	GAUUUG G AUAAUCU	6219	AGAUUAU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG CAAAUC	24595
4608	UACACAA G AGAGGAG	6220	CCUCCUC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG UUUUGUA	24596
4610	CACAAAG G AGGAGCG	6221	GCUCUUC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG UCUCUUG	24597
4612	CAAGAGA G GAGGUG	6222	CACGCCUC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG UCUCUUG	24598
4613	AAAGAG G AGGUGU	6223	ACACGCU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG UCUCUUG	24599
4615	AGAGAG G GUGUGU	6224	CAACAGC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG UCCUCUCU	24600
4625	CGUGUGU G GACACUC	6225	GAGUUC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG ACAACAG	24601
4626	GUGUGUG G GACACUC	6226	GGAGUUC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG CACAAC	24602
4627	UGUGUG G ACACUC	6227	GGAGUGU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG CCACAACA	24603
4644	UCACCAA G GAGUACAA	6228	UUGUACU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG UUGUGUA	24604
4645	CACAAAG G AGUACAA	6229	UUUGUACU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG CUUUGUG	24605
4656	UACAAAA G GGGACAC	6230	GUGUCCC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG UUUUGUA	24606
4657	ACAAAAAG G GGGACAC	6231	CGUGUCC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG CUUUGU	24607
4658	CAAAAAG G GGGACGA	6232	UCGUGUC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG CCUUUG	24608
4659	AAAAAGG G GACACGAC	6233	GUCGUGU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG CCUUUUU	24609
4660	AAAAAGG G ACACGAC	6234	GGUGUGU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG CCCCUCU	24610
4665	GGGACAC G ACCACCG	6235	CCGUGGU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG GUGUCCC	24611
4672	CGACCAC G GCGUCUAC	6236	GUAGAGC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG GGUGUCG	24612
4682	CGUCUAC G GAUCAUGA	6237	UCAUGAU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG UGUAGACG	24613
4683	GUCUACAG G AUCAUGAC	6238	GUAUGAU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG CUGUAGAC	24614
4689	AGGAUCAU G ACUCUGG	6239	CCACAGU GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG AUGAUCCU	24615
4696	UGACUUCU G GCGUCUC	6240	GAGACGC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG ACGAGUCA	24616
4697	GACUCUG G GCGUCUG	6241	CGAGAGC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG CACGAGUC	24617
4705	GGCUGUC G GCAGUAU	6242	AUAACUC GGA GCCGUUAGGC UCCUUCUCAAAGGA GCCGUUAGGC UCCGGG GAGCAGCC	24618

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4720	AUCAAGCA G GAGCGGGC	6243	GCCCGCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGCUUGAU	24619
4721	UCAAGCAG G AGCGGGCG	6244	CGCCGCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUGCUUGA	24620
4725	GCAGGAGC G GCGUGAU	6245	AUACAGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GCUCUUGC	24621
4726	CAGGAGCG G GCGUGAU	6246	CAUCACGC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GCGUCCUG	24622
4731	GCGGCGU G AUGGUUA	6247	UCNAACCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACGCCCGC	24623
4734	GGCUGAU G GUUAAGG	6248	CCUUCAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUCACGCC	24624
4738	UGAUGGUU G AAGGUUU	6249	AACACCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AACCAUCA	24625
4741	UGGUUGAA G GUGUUUC	6250	GAACAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUCAACCA	24626
4760	CACCCUUU G GCAUACAA	6251	UUGUAUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAAGGUG	24627
4774	CAACAAA G GAGCGGU	6252	AGGGCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUUUGUU	24628
4775	AACAAAAG G AGCGCGU	6253	AGCGGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUUUUGUU	24629
4785	GCGCUUU G AUGAGCG	6254	CGGCUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAAGCGC	24630
4788	GUUUGAU G AGCGGAGA	6255	UCUCCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUCAAAGC	24631
4792	UGAUGAGC G GAGAGGGC	6256	GGCCUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GCUCAUCA	24632
4793	GAUGAGCG G AGAGGGCC	6257	GGCCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GCTUCAUC	24633
4795	UGAGCGGA G AGGCGCG	6258	GCGGCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCCGCUCA	24634
4797	AGCGGAGA G GCGCGCCU	6259	AGGCGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCUCGCU	24635
4798	GCGGAGAG G GCGCGCU	6260	CAGGCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUCUCCGC	24636
4806	GCGCGCCU G GACCAUA	6261	UAUGGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGGCGGC	24637
4807	GCGCGCUG G ACCAUAC	6262	GUUGGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAGGCGC	24638
4817	CCAUACU G GGGCAGUG	6263	CACUGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGUAUGGG	24639
4818	CCAUACUG G GGCAGUGU	6264	ACATUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAGUAUGG	24640
4819	CAUACUG G GCAGUGUC	6265	GACACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CCAGUAUG	24641
4830	AGUGUCRA G GAGAUUG	6266	CGAUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUGACACU	24642
4831	GUGUCAAG G AGGAUCGA	6267	UGAUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUUGACAC	24643
4833	GUCAGGA G GAUCGACU	6268	AGUCGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUUUGAC	24644
4834	UCAAGGAG G AUCGACU	6269	AAGUCGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUUUGA	24645
4838	GGAGGAUC G ACUUUGUU	6270	AACAAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GAUCCUCC	24646
4849	UUUGUUAAC G GAGGACCC	6271	GGGUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUAAACAA	24647
4850	UUUGUUAAC G AGGACCCU	6272	AGGUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUAACAA	24648
4852	GUUACGGA G GACCCUGG	6273	CCAGGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCCGUAAAC	24649
4853	UUACGGAG G ACCCUGGA	6274	UCCAGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUCCGUAA	24650
4859	AGGACCCU G GAAAUUGC	6275	GCAUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGGUCCU	24651
4860	GACCCUG G AAATUGCA	6276	UGCAUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAGGUCC	24652
4877	GCACAAGU G GAACGGGC	6277	GCCCGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACTUUGC	24653
4878	CACAAGUG G AACGGGCA	6278	UGCCGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CACUUGUG	24654
4882	AGUGGAC G GGCAGGAU	6279	AUCCUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUUCCACU	24655
4883	GUGGAACG G GCAGGAUG	6280	CAUCCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GBUCCAC	24656
4887	AACGGGCA G GAUGAGGU	6281	ACCUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGCCCGUU	24657
4888	ACGGGCAG G AUGAGGUG	6282	CACCUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUGCCCGU	24658

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4891	GGCAGGAG G AGGUGCAG	6283	CUGCACC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCUGCC	24659
4893	CAGGAUGA G GUGCAGAU	6284	AUCUGCAC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAUCCUG	24660
4899	GAGGUGCA G AUGAUUGU	6285	ACAUAU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGACCCUC	24661
4902	GUGCAGAU G AUUGUGGU	6286	ACCACAAU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUGGCAC	24662
4908	AUGAUUGU G GUGGAACC	6287	GGUCCAC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUCAU	24663
4911	AUGUGGU G GAACCTUG	6288	CCAGUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCACAU	24664
4912	UUGUGUG G AACCGGC	6289	GCCAGGU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACCACAA	24665
4918	UGGAACCU G GCAAGAAC	6290	GUUCUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGUUCCA	24666
4923	CCUGGCA G AACGUUA	6291	UUAAGGU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCAGG	24667
4922	AACGUUA G AACGUCCA	6292	UGGACGUU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAACGUU	24668
4941	AACGUCCA G ACRAACC	6293	GGUUCGU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGACGUU	24669
4944	GUCCAGAC G AAACCCAG	6294	CCUGGUU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCUGGAC	24670
4951	CGAAACCA G GGGUGUUC	6295	GAACACCC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUUUCG	24671
4952	GAACCCAG G GGUGUUA	6296	UGAACACC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGUUUC	24672
4953	AAACCCAG G GUGUCCA	6297	UTGAACAC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUGGUUU	24673
4969	AUCCACCU G AAGGAGAA	6298	UUCUCCU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGUGUUU	24674
4972	CAACUGAA G GAGAAUUC	6299	GAUUUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAGGUU	24675
4973	ACCUGAAG G AGAAUUCG	6300	CGAUUUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCAGGU	24676
4975	CUGAAGGA G AAUUCGGG	6301	CCCAUUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUUCAG	24677
4981	GAGAAUUC G GGGCCGUG	6302	CACGGCC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUUUCUC	24678
4982	AGAAUUCG G GGCCGUGA	6303	UCACGGCC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAUUUCU	24679
4983	GAUAUCGG G GCCGUGAC	6304	GUCACGGC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGAUUUC	24680
4989	GGGGCCGU G ACUUUGGA	6305	UCCAAAGU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGGCCCC	24681
4995	GUGACUUU G GACUUCUC	6306	GGGAAGUC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAGUCAC	24682
4996	UGACUUUG G ACUUCGCC	6307	GGGAGAGU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGUCA	24683
5008	UCCCCACU G GAACAUCA	6308	UGAUGUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGGGGA	24684
5009	CCCCACUG G AACAUACG	6309	CUGAUGUU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUGGGG	24685
5017	GAACAUCA G GCUCACCA	6310	UGGUGAGC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAUGUUC	24686
5031	CCAUAUGU G GACAAAAA	6311	UUUUUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUAUUGG	24687
5032	CAUAUGUG G ACAAAAC	6312	GUUUUUGU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUAUUG	24688
5041	ACAAAAC G GUGAUGUG	6313	CACAUCAC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUUUUGU	24689
5044	AAAACGGU G AUGUGAUU	6314	AAUACAAU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCGUUUU	24690
5049	GGUGAUGU G AUUGGGCU	6315	AGCCAAU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUCACU	24691
5053	AUGUGAUU G GGUUUUAU	6316	AUAAAGC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCACAU	24692
5054	UGUGAUGU G GCUUUAUG	6317	CAUAAAGC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAUCACA	24693
5062	GGCUUUAU G GCAUUGGA	6318	UCCAUUGC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUAAGCC	24694
5068	AUGGCAAU G GAGUCAUA	6319	UAUGACUC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUTGCCAU	24695
5069	UGGCAUUG G AGUCAUAA	6320	UUAUGACU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUGCCA	24696
5086	UGCCACAC G GCUCAUAC	6321	GUUUGAGC GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUGGGCA	24697
5103	AUAAGCGC G AUAGUGCA	6322	UGCACAUU GGA GCGGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCUCUUAU	24698

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5112	AUAGUGCA G GUGAAAG	6323	UUUACAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCACUUAU	24699
5113	UAGUGCAG G GUGAAAGG	6324	CCUUUCAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUGCACUA	24700
5116	UGCAGGGU G AAAGGAUG	6325	CAUCCUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACCCUGCA	24701
5120	GGUGGAA G GAUGGAUG	6326	CAUCCAUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUCACCC	24702
5121	GGUGAAAG G AUGGAUGA	6327	UCAUCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUUCACC	24703
5124	GAAGAGAU G GAUGAGCC	6328	GGCUCAUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCCUUUC	24704
5125	AAAGGAGU G AUGAGCCA	6329	UGGCUCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCCUUU	24705
5128	GGAUGGAU G AGCCAUC	6330	GAUUGGCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCCAUC	24706
5143	UCCAGGCC G GAUUCGAA	6331	UUCGAAUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGCUGGBA	24707
5144	CCAGCCG G AUUCGAA	6332	GUUGAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGGCUGGG	24708
5149	CCGGAUUC G AACUGAG	6333	CUCAGAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAUCCGG	24709
5155	UCGAACU G AGAUGUG	6334	CAGCAUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGUUCGA	24710
5157	GAACCUGA G AUGCUGAG	6335	CUCAGCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAGGUUC	24711
5163	GAGAUCU G AGGAAAAA	6336	UUUUCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCAUCUC	24712
5165	GAUGCUA G GAAAAAAC	6337	GUUUUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAGCAUC	24713
5166	AUGCUGAG G AAAAAACA	6338	UGUUUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCAGCAU	24714
5175	AAAAACA G AUCACUGU	6339	ACAGGAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUUUUUU	24715
5187	ACUGUACU G GAUCUCCA	6340	UGGAGAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUACAGU	24716
5188	UGUACUUC G AUCUCCAU	6341	AUGGAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGUACAG	24717
5200	UCCAUCC G GCGCCGU	6342	ACCGGCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGGAUGGA	24718
5206	CCGGCGC G GUAAAAA	6343	UGUUUAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGCGCCG	24719
5216	UAAAAA G GAGGAUUC	6344	GAUCCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUUUUUA	24720
5217	AAAAAAG G AGGAUUCU	6345	AGAAUCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUGUUUU	24721
5219	AACAAGA G GAUUCUGC	6346	GCAGAUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUUGUU	24722
5220	ACAAGGAG G AUUCUGCC	6347	GGCAGAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCUUGUU	24723
5232	CUGCCACA G AUCAUCAA	6348	UGAUGAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUGGCAG	24724
5242	UCAUCAAA G AGGCCAUA	6349	UAUGGCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUGAUGA	24725
5244	AUCAAGA G GCCAUAAA	6350	UUUAUGGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUUGAUU	24726
5255	CAUAAAA G AAGACUGA	6351	UCAGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUUUAUG	24727
5258	AAACAGAA G ACUGAGAA	6352	UUCUCAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCUGUUU	24728
5262	AGAAGACU G AGAACACG	6353	GCUGUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUCUUCU	24729
5264	AAGACUGA G AACAGCCG	6354	CGGCUUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAGUUCU	24730
5288	ACCAACA G GGUUGUGG	6355	CCACAACC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGUTUGU	24731
5289	CCAACGAG G GUUGUGGC	6356	GCCACAAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUGGUUGG	24732
5295	AGGUUGU G GUGUGUGA	6357	CCGACGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACACCCCU	24733
5302	UGGUGUGU G AGAUGGCU	6358	AGCCAUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCAGCCA	24734
5304	GCUGCUGA G AUGGCGUA	6359	UCAGCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAGCAGC	24735
5307	GCUGAGAU G GCUGAAGC	6360	GCUCAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCUCAGC	24736
5311	AGAUGGCU G AAGCAGUG	6361	CAGUGCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCCAUCU	24737
5319	GAAGCACU G AGAGGACU	6362	AGUCCUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUGCUUC	24738

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5321	AGCACUGA G AGGACUGC	6363	GCAGUCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAGUGCU	24739
5323	CACUGAGA G GACUGCCC	6364	GGGCAGUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUCAGUG	24740
5324	ACUGAGAG G ACUGCCCA	6365	UGGGCAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUCACAGU	24741
5336	GCCCAUCC G GUACCCAGA	6366	UCUGGUAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGAUGGGC	24742
5343	CGGUACCA G ACAUCGCG	6367	GCGGAUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGUACCG	24743
5360	AGUGCCCA G AGAACAUUA	6368	UAUGUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGCACAU	24744
5362	UGCCCCAGA G AACAUAAU	6369	AUAUAUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUGGGCA	24745
5371	AACAUAUU G GAAUUGAG	6370	CUCAUUAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUAUAUGU	24746
5372	ACAUAUUG G AAUUGAGA	6371	UCUCAUUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUAUAUGU	24747
5377	AUGGAUAU G AGAUUGUU	6372	AACAUAUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUUCCAU	24748
5379	GGAAUAUA G AUUGUUGA	6373	UCAACAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAUUUCC	24749
5386	AGAUUGUU G AUGUCUAG	6374	CAUGACAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAAUAUCU	24750
5417	CACCCACA G GCUGAUGU	6375	ACAUCAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUGGGUG	24751
5421	CACAGGCU G AUGUCUCC	6376	GGAGACAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCCUGUG	24752
5435	UCCUCACA G GGUGCCGA	6377	UCGGCACC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUGAGGA	24753
5436	CCUCACAG G GUGCCGAA	6378	UUCGGCAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUGAGAG	24754
5442	AGGUGGCC G AACUACAA	6379	UTUGUAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGCACCCU	24755
5460	CUGUUGCU G AUGGAUGA	6380	UCAUCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACGAACAG	24756
5463	UUCUGUAU G GAUGAGGC	6381	GCUCUACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCAACGAA	24757
5464	UCUGUAUG G AUGAGGCU	6382	AGCCUACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCACGA	24758
5467	UGAUGUAU G AGGUCUUA	6383	AUGAGCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCCAUA	24759
5469	AUGGAUGA G GCUCAUUU	6384	AAUAGAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAUCCAU	24760
5482	AUUUACC G ACCCAGCU	6385	AGCUGGGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGUAAAU	24761
5504	UGCAGCAA G AGGUUACA	6386	UGUAACCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGCUUGCA	24762
5506	CAGCAAGA G GUUACAUU	6387	AAUGUAAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUUGCUG	24763
5523	UCCACAAA G GUCGAGCU	6388	AGCUCGAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUGUGGA	24764
5527	CAAAGUUC G AGCUAGGG	6389	CCCUAGCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GACCUUUG	24765
5533	UCGAGCUA G GGGAGGCG	6390	CGCCUCCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAGCUUGA	24766
5534	CGAGCUAG G GGAGGCGG	6391	CCGCCUCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUAGCUUG	24767
5535	GAGCUAGG G GAGGCGGC	6392	GCCGCCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCUAGCUC	24768
5536	AGCUAGGG G AGGCGGCG	6393	CGCCGCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCCUAGCU	24769
5538	CUAGGGGA G GCGGCGGC	6394	GCCGCCGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCCUUAG	24770
5541	GGGGAGGC G GCGGCAAU	6395	AUUGCCGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCCUCCCC	24771
5544	GAGGCGGC G GCAUAUAU	6396	AAUAUUGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCGGCCUC	24772
5556	AUAUAUAU G ACAGCCAC	6397	GUGGAGUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCAUAUA	24773
5572	CCCCACCA G GCACUUA	6398	UGAAGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGUGGGG	24774
5581	GCACUUA G AUCCAUUC	6399	GAAUGGAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGAAGUGC	24775
5593	CAUUCCCA G AGUCCAAU	6400	AUUGGACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGGAUUG	24776
5614	CAAUUCC G ACUUAACAG	6401	CUGUAAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGAAUAUG	24777
5622	GACUUAUA G ACUGAGAU	6402	AUCUAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUAGUC	24778

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5626	UACAGACU G AGAUCCCG	6403	CGGGAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG AGUCUGUA	24779
5628	CAGACUGA G AUCCCGGA	6404	UCCGGGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG UCAGUCUG	24780
5634	GAGAUCCC G GAUCGAGC	6405	GCUCGAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG GGGGAUCUC	24781
5635	AGAUCCCG G AUCGAGC	6406	AGCUUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG CGGGAUCU	24782
5639	CCCGGAUC G AGCUUGGA	6407	UCCAAAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG GAUCCCGG	24783
5645	UCGAGCUU G GAACUCUG	6408	CAGAGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG AAGCUCGA	24784
5646	CGAGCUUG G AACUCUGG	6409	CCAGAGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG CAGCUCUG	24785
5653	GGAAUCUC G GAUACGAA	6410	UUCGUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG AGAGUUC	24786
5654	GAACUCUG G AUACGAU	6411	AUUCGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG CAGAGUUC	24787
5659	CUGGAUAC G AAUGAUC	6412	GAUCCAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG GAUCCAG	24788
5663	AUACGAU G GAUCACAG	6413	CUGGAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG AUUCGUU	24789
5664	UACGAUG G AUCACAGA	6414	UCUGGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG CAUUCGU	24790
5671	GGUACACA G AAUACACC	6415	GGUGAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG UGUGAUCC	24791
5680	AAUACACC G GGAAGACG	6416	CGUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG GGUUUAU	24792
5681	AUACACC G GAAGACGG	6417	CCGUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG CGGUGAU	24793
5682	UACACCG G AAGACGGU	6418	ACGUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG CGGUGUA	24794
5685	ACCGGAA G ACGGUUG	6419	CAAAACCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG UCCCGGU	24795
5688	GGGAAGC G GUUGGUU	6420	AAACAAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG GUCUCCC	24796
5693	GACGGUU G GUUGUGC	6421	GCACAAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG AAACCGUC	24797
5712	AGUGUCAA G AUGGGAA	6422	UUCCCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG UAACACU	24798
5715	GUCAAGAU G GGGAUGA	6423	UCAUCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG AUCUUGAC	24799
5716	UCAGAUG G GGAUGAG	6424	CUCAUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG CAUCUUGA	24800
5717	CAAGAUG G GAUGAGA	6425	UCUCAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG CCAUCUUG	24801
5718	AAGAUGG G AAUGAGU	6426	AUCUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG CCAUCUU	24802
5722	UGGGGAU G AGAUGCC	6427	GGCAAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG AUUCCCCA	24803
5724	GGGAUGA G AUUGCCU	6428	AGGGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG UCAUCCC	24804
5749	AACUGCU G GAAAGAA	6429	UUUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG AGCACGUU	24805
5750	ACGUGUG G AAAGAAG	6430	CUUUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG CAGCACGU	24806
5754	GCUGGAA G AAAGUAGU	6431	ACUACUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG UUUCCAGC	24807
5769	GUCCAAU G AACAGAA	6432	UUUCUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG AAUUGGAC	24808
5774	AUGAACA G AAAGUCGU	6433	ACGACUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG UGUUCAU	24809
5785	AGUCUAC G AGACGGAG	6434	CUCCGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG GUACGACU	24810
5787	UCGUACGA G ACGAGUA	6435	UACUCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG UCGUACGA	24811
5790	UACGAGC G GAGUACCC	6436	GGGUACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG GUCUCGUA	24812
5791	ACGAGAC G AGUACCCA	6437	UGGUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG CGUCUCGU	24813
5808	AAAUUAA G AACGAUGA	6438	UCAUGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG UACAUUU	24814
5812	GUAGAAC G AUGAUUG	6439	CCAAUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG GUCUUDAC	24815
5815	AGAACGAU G AUUGGGAC	6440	GUCCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG AUCGUUCU	24816
5819	CGAUGAU G GGACUUUG	6441	CAAAGUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG AAUUAUCG	24817
5820	GAUGAUG G GACUUUGU	6442	ACHAAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCUUUAGGC UCCGGG CAAUCAUC	24818

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5821	AUGAUGG G ACUUGUU	6443	AACAAAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUCAU	24819
5839	UCACAACA G ACAUUCU	6444	AGAUAUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUGUGA	24820
5848	ACAUAUCU G AAUUGGG	6445	CCCCAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAUUGU	24821
5853	UCUGAAU G GGGCUAA	6446	UUAGCCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUUCAGA	24822
5854	CUGAAUG G GGGCUAAC	6447	GUUAGCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUCAG	24823
5855	UGAAUUG G GGCUAACU	6448	AGUUAACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUUUCA	24824
5856	GAAUUGG G GCUAACUU	6449	AAUUAAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUUUC	24825
5868	AACUUCAA G GCGAGCAG	6450	CUGCUCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAAGUU	24826
5871	UUCAAAGG G AGCAGGGU	6451	ACCUCUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCUUGAA	24827
5876	GGCAGCA G GGUAUUG	6452	CRAUCACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUCGCC	24828
5877	GCGAGCAG G GUGAUUGA	6453	UCAUACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGCUCGC	24829
5880	AGCAGGG G AUGACAG	6454	CUGUCAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUCUGU	24830
5884	GGUGAUU G ACAGCCG	6455	CCGGCUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCACCC	24831
5891	UGACAGCC G GAAGAGUG	6456	CACUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGCUGUCA	24832
5892	GACAGCG G AAGAGUGU	6457	ACACUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGUGUC	24833
5895	AGCGGAA G AGUGGAA	6458	UUCACACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCCGGCU	24834
5901	AAGAGUGU G AAACCAAC	6459	GUUGGUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACUCUU	24835
5920	UCAUAACA G AAGGAGAA	6460	UUCUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUAUGA	24836
5923	UAACAGAA G GAGAGGG	6461	CCCUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUGUUA	24837
5924	AACAGAG G AGAAGGA	6462	UCCCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUCUUU	24838
5926	CAGAAGG G AAGGAGA	6463	UUCUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUUCUG	24839
5929	AAGAGAA G GGAGAGUG	6464	CACUCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUCUUU	24840
5930	AGGAGAAG G GAGAGUGA	6465	UCACUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCUCCU	24841
5931	GGAGAAG G AGAGUGAU	6466	AUCACUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCUCC	24842
5933	AGAGAGGA G AGUGAUCC	6467	GGAUCACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCUUCU	24843
5937	GGAGAGU G AUCCUGG	6468	CCACAGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCUCC	24844
5943	GUGAUCCU G GGAGAACC	6469	GGUUCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGAUCAC	24845
5944	UGAUCCUG G GAGAACCA	6470	UGGUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGGAUCA	24846
5945	GAUCCUG G AGAACCAU	6471	AUGGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCAGGAUC	24847
5947	UCCUGGGA G AACCAUCU	6472	AGAUGGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCAGGA	24848
5961	UCUGCAGU G ACAGCAGC	6473	GCUGCUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGCAGA	24849
5982	GCGCCCA G AGAGUGG	6474	CCACGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGGCGGC	24850
5984	CGCCAGA G ACUGGAC	6475	GUCCACGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGGCGC	24851
5989	AGAGACU G GACGUAUC	6476	GUAUCGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCUCUC	24852
5990	GAGACUG G ACUUAUCG	6477	CGAUACGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUCUC	24853
5998	GAGUAUC G GUAGAAU	6478	AUUUCUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUACGUC	24854
6002	UAUCGGUA G AAUCCGU	6479	ACGGAUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACCGAUA	24855
6019	CGCAAGU G GUGAUGAG	6480	CUCAUCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACUUGCG	24856
6022	AGUUGGU G AUGAGUAC	6481	GUACUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAUCUU	24857
6025	UUGUGAU G AGUACUGU	6482	ACAGUACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCACCA	24858

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6037	ACUGUUAU G GGGGGCAC	6483	GUGCCCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUACACAGU	24859
6038	CUGUUAUG G GGGGCACA	6484	UGUGCCCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAUAACAG	24860
6039	UGUUAUGG G GGGCACAC	6485	GUGGCCCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CCAUAACA	24861
6040	GUUAUGGG G GGCACACG	6486	CGUGUCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CCAUAAC	24862
6041	UUAUGGGG G GCACACGA	6487	UCGUGGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CCAUAUA	24863
6048	GGGCACAC G AAUAAGA	6488	UCUUAUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUGUGCC	24864
6052	ACACGAU G AAGACGAC	6489	GUCGUUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUUCGUGU	24865
6055	CGAAUGAA G ACACUUG	6490	CGAGUCGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUCAUUG	24866
6058	AUGAGAC G ACUCGAAC	6491	GUDCGAGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUUCUCAU	24867
6063	GACGACUC G AACUUCGC	6492	GCGAAGUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GAGUCGUC	24868
6077	CGCCCAU G GACUGAGG	6493	CCUCAGUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAUGGGCG	24869
6078	GCCCAUUG G ACUGAGGC	6494	CCUCAGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAAUGGGC	24870
6082	AUGGACU G AGGCACGA	6495	UCCUGCCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGUCCAAU	24871
6084	UGGACUGA G GCACGAU	6496	AUCGUGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCAGUCCA	24872
6089	UGAGGCAC G AAUCAUGC	6497	GCAUGAUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUGCCUCA	24873
6099	AUCAUGCU G GACACAU	6498	AUGUUGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGCAUGAU	24874
6100	UCAUGCU G ACAACAUC	6499	GAUGUUG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAGCAUGA	24875
6121	UGCCAAAC G GACUGAUC	6500	GAUCAGUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUUUGGCA	24876
6122	GCCAAACG G ACUGAUCG	6501	CGAUCAGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CGUUGGC	24877
6126	AACGACU G AUCGCUCA	6502	UGAUGGAG GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGUCCGUU	24878
6148	ACCAACCA G AGCGUGAG	6503	CUCACGCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGUUGGU	24879
6154	CAGAGCGU G AGAAGGUA	6504	UACCUUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGCUCUG	24880
6156	GAGCGUGA G AAGGUUA	6505	UAUACCUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCACGCUC	24881
6159	CGUGAGAA G GUUAUAC	6506	GUUAUAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUCUCACG	24882
6171	UAUACCAU G GAUGGGGA	6507	UCCCAUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUGGUUA	24883
6172	AUACCAUG G AUGGGGA	6508	UUCCCAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAUGGUU	24884
6175	CCAUGGAU G GGAUATC	6509	GUUAUCCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUCCAUGG	24885
6176	CAUGGAUG G GGAUATC	6510	GGUAUCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAUCCAUG	24886
6177	AUGGAUG G GAUATCC	6511	CGUAUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CCAUCCA	24887
6178	UGGAUGG G AAUACCG	6512	CCGUUUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CCAUCCA	24888
6185	GGAAUACC G GCUCAGAG	6513	CUCUGAGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GGUUUUCC	24889
6191	CCGGCUCA G AGGAGAAG	6514	CUUCUCCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGAGCCCG	24890
6193	GGTUCAGA G GAGAAGAG	6515	CUCUUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCUAGACC	24891
6194	GCUCAGAG G AGAAGAGA	6516	UCUUCUUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUCUGAGC	24892
6196	UCAGAGCA G AAGAGAGA	6517	UCUUCUUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCCUCUGA	24893
6199	GAGAGAA G AGAGAAA	6518	UUUUUUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUCUCCUC	24894
6201	GGAGAAGA G AGAAAAA	6519	UUUUUUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUCUCCUC	24895
6203	AGAAAGAGA G AAAAAACU	6520	AGUUUUUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUCUCCUC	24896
6216	AACUUUCU G GAACUGUU	6521	AACAGUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGAAAGUU	24897
6217	ACUUUCUG G AACUUG	6522	CAACAGUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAGAAAGU	24898

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6225	GAACUGUU G AGGACUGC	6523	GCAGUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAGUUC	24899
6227	ACUGUUGA G GACUGCAG	6524	CUGCAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAACAGU	24900
6228	CUGUUGAG G ACUGCAGA	6525	UCUGCAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCACACG	24901
6235	GACUGCA G AUCUGCCA	6526	UGGCAGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCAGUCC	24902
6248	GCCAGUUU G GUGGCUU	6527	AAGCCAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACUGGC	24903
6252	GUUGGCU G GCUUACAA	6528	UUGUAAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCAAAC	24904
6261	GCUUACAA G GUUGCAGC	6529	GCUGCAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUAAGC	24905
6270	GUUGCAGC G GUGGAGU	6530	ACUCCAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGCAAC	24906
6274	CAGCGCU G GAGUGUA	6531	UGACACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCGGCUG	24907
6275	AGCGGCU G AGUGUCAU	6532	AUGACACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGCCGCU	24908
6289	CAUACCAC G ACCGAGG	6533	CCUCCGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGUAUG	24909
6293	CCACGACC G GAGGUGU	6534	ACCACCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGUCGUGG	24910
6294	CACGACCG G AGGUGUG	6535	CACCACCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGUCGUG	24911
6296	CGACCGGA G GUGGUGU	6536	AGCACCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGGGUCG	24912
6299	CCGAGGU G GUGCUUUG	6537	CAAAGCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUCGCG	24913
6307	GGUGCUU G AUGGUCU	6538	AGGACCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAGCAC	24914
6310	GCUUGAU G GUCCUAGG	6539	CUUAGGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAAAGC	24915
6317	UGGUCCUA G GACAAACA	6540	UGUUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGGACCA	24916
6318	GGUCCUAG G ACAACAC	6541	GUGUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUAGGACC	24917
6334	CAUUUUA G AAGACAAC	6542	GUUGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAAAAUUG	24918
6337	UUUUGAA G ACAACAAC	6543	GUUGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUAAAA	24919
6346	ACAACAAC G AAGUGAA	6544	UUCACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUGUUGU	24920
6351	AACGAAGU G GAAGUCAU	6545	AUGACUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUCGUU	24921
6352	ACGAAGU G AAGUCAUC	6546	GAUGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUUCGU	24922
6363	GUCAUCAC G AAGCUUGG	6547	CCAAGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGAUGAC	24923
6370	CGRAGCU G GUGAAAGG	6548	CCUUCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCUUCG	24924
6373	AGCUUGGU G AAGGAAG	6549	CUUCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAAGCU	24925
6377	UGGUGAAA G AAGAUUUC	6550	GAUUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCACCA	24926
6378	GGUGAAG G AAGAUUCU	6551	AGAUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUCACC	24927
6381	GAAAGAA G AUTUCUGAG	6552	CUCAGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUUCUC	24928
6387	AAGAUUCU G AGGCCGCG	6553	CGCGGCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAAUCUU	24929
6389	GAUUCUGA G GCCGCGCU	6554	AGCGCGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAGAAUC	24930
6398	GCCGCGCU G GAUUGACG	6555	CGUCAAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCGCGGC	24931
6399	CCGCGCUG G AUTGACGC	6556	GCUGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGCGCGG	24932
6403	GCUGGAU G ACGCCAGG	6557	CCUGGCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCCAGC	24933
6410	UGACGCCA G GGUGUACU	6558	AGUACACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCGGUCA	24934
6411	GACGCCG G GUGUACUC	6559	GAGUACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGCGUUC	24935
6420	GUGUACUC G GAUCACCA	6560	UGGUGAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGUACAC	24936
6421	UGUACUC G AUCACCAG	6561	CUGUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAGUACA	24937
6429	GAUCACCA G GCACUAAA	6562	UUUAGUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUGAUC	24938

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6438	GCACUAAA G GCGUUCAA	6563	UUGAACGC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	UUUAGUC	24939
6447	GCGUUCAA G GACUUCGC	6564	GCGAAGUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	UUGAACGC	24940
6448	CGUUCAG G ACUUCGCC	6565	GCGAAGU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	CUUGAACG	24941
6459	UUCGCCUC G GGAAGACG	6566	CGUUUUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	GAGGCGAA	24942
6460	UCCGCCUC G GAAACGCU	6567	ACGUUUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	CGAGGCGA	24943
6461	CGCCUCGG G ARAACGUU	6568	AACGUUU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	CCGAGGCG	24944
6474	CGUUCUCA G AUAAGGCU	6569	AGCCUUU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	UGAGAAGC	24945
6478	CUACAGUA G GGCUCAU	6570	AAUAGCC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	UAUCUGAG	24946
6479	UCAGAUAG G GCUCAUUG	6571	CAUAGAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	CUAUCUGA	24947
6487	GGCUCAU G AGGUUCUG	6572	CAGAACCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	AAUGAGCC	24948
6489	CUCAUTGA G GUTUCGGG	6573	CCCAGAAC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	UCAAUGAG	24949
6495	GAGGUCU G GGAAGAU	6574	AUCUUUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	AGAACCUC	24950
6496	AGGUUCUG G AAGAAGU	6575	CAUCUUU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	CAGAACCUC	24951
6497	GGUUCUGG G ARAAGUC	6576	GCAUCUU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	CCAGAACC	24952
6501	CUGGAAA G AUGCCUGA	6577	UCAGGCAU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	UUUCCGAG	24953
6508	AGAUGCCU G AGCACUUC	6578	GAAUGCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	AGGCAUCU	24954
6519	CACUUCU G GGAAGAC	6579	GUUUUCC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	AUGAAGUG	24955
6520	ACUUCAG G GGAAGACA	6580	UGUUCUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	CAUGAAGU	24956
6521	CUUCAGG G GAAGACAU	6581	AUGUCUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	CCAUGAAG	24957
6522	UUAUGGG G AAGACAUG	6582	CAUGUCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	CCTAUGAA	24958
6525	AUGGGGA G ACUUGGGA	6583	UCCCAUG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	UUCCCCAU	24959
6530	GAAGACU G GGAAGCAC	6584	GUGUCUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	AUGUCUUC	24960
6531	AAGACAU G GAAGCACU	6585	AGUCUUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	CAUGUCUUC	24961
6532	AGACAUG G AAGCACU	6586	AAGUGCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	CCTAUGUCU	24962
6541	AAGACUU G ACACCAUG	6587	CAUGUGU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	AAGUGCUU	24963
6558	UAGGUUGU G GCCACUGC	6588	GCAGUGG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	ACAACGUA	24964
6568	CCACUGCA G AGAAGGA	6589	UCCUUCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	UGCAGUGG	24965
6570	ACUGCAGA G AAGGAGG	6590	CCUCCUU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	UCUGCAGU	24966
6574	CAGAGAAA G GAGGAAGA	6591	UCUUCCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	UUUCUCUG	24967
6575	AGAGAAAG G AGGAGAG	6592	CUUUCUU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	CUUUCUUC	24968
6577	AGAAAGGA G GAAGAGCU	6593	AGCUCUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	UCCUUCUC	24969
6578	GAAAGGAG G AAGAGCUC	6594	GAGCUCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	CUCCUUCU	24970
6581	AGAGGAA G AGCUCACA	6595	UGUAGCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	UUCUCCU	24971
6590	AGUCACAC G AAGGCCC	6596	GGGCCAU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	UGUGAGCU	24972
6594	CACAGAAU G GCGCUGGA	6597	UCCAGGC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	AUUCUGUG	24973
6600	AUGGCCCU G GAGGAACU	6598	AGUUCUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	AGGCGCAU	24974
6601	UGGCCUUG G AGGAACUG	6599	CAGUUCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	CAGGCGCA	24975
6603	GCCUUGG G GACUGCC	6600	GGCAGUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	UCCAGGCG	24976
6604	CCUUGGAG G AACUGCCA	6601	UGGCAGU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	CUCCAGGC	24977
6613	AACUGCCA G AUGCUCU	6602	AAGAGCAU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGGUUAGGC	UCCGGG	UGGCAGU	24978

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6624	GCUCUUA G ACAAUUGC	6603	GCAAUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAAGAGC	24979
6636	AUUGCCUU G AUUGCCUU	6604	AAGGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGGCAU	24980
6648	GCCUUUU G AGUGUAU	6605	AUCACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUAAGGC	24981
6654	UUGAGUGU G AUGACCAU	6606	AUGUUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACUCAA	24982
6657	AGUGUAU G ACCAUGG	6607	CCCAUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCACAU	24983
6663	AUGACCAU G GGUAUUU	6608	AAUACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUUAU	24984
6664	UGACCAUG G GUAUUUC	6609	GAUAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUGGUCA	24985
6665	GACCAUG G AGUAUUU	6610	AGAAUACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUGGUC	24986
6689	CAUGCAG G GAAGGCA	6611	UGCCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGCAUG	24987
6690	AUGCAGC G AAGGCAU	6612	AUGCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGCAU	24988
6693	CAGCGAA G GCAUUGG	6613	CCAAUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGUG	24989
6694	AGCGAAG G GCAUUGA	6614	UCCAAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCGCU	24990
6700	AGGCAUU G GAAGUAU	6615	UAUCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUGCCU	24991
6701	GGCAUUG G AAAGUAG	6616	CUAUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAUGCC	24992
6705	AUUGGAA G AUAAGUUU	6617	AAACCUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCCA	24993
6709	GAAGUAU G GUUUGGA	6618	UCCCAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUUUUC	24994
6714	AUAAGUUU G GAGGCGC	6619	GGCCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAACCUU	24995
6715	UAGGUUG G GAGGCGU	6620	AGCGCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAACCU	24996
6716	AGGUUGG G AGGCGUG	6621	CAGCGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAACCU	24997
6718	GUUUGGA G GCGUGUC	6622	GACAGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAAAC	24998
6729	GUGUCUU G GAGUCGC	6623	GGGACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGACAG	24999
6730	CUGUCUG G GAGUCGC	6624	GCGACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGACAG	25000
6731	UGUCUUG G AGUCGCG	6625	UGCGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAAGACA	25001
6738	GGAGUCG G ACCUUUU	6626	AAAAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGACUC	25002
6752	UUUCUUU G GAUGGUG	6627	CAGCAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAGAA	25003
6753	UUCUGUG G AUGGUGA	6628	UCAGCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACAGAA	25004
6756	UGUUGAU G GUGAAGU	6629	ACUUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCAACA	25005
6760	GGAUGGU G AAGUCCA	6630	UGGAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCAUC	25006
6769	AGUUCUA G AAGCAAG	6631	CUUCGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGAACU	25007
6770	AGUCCAG G AAGCAAG	6632	UCUUCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGAACU	25008
6774	CCAGAAC G AAGAUCC	6633	GCGAUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUCUGG	25009
6777	GGAACGA G AUGGCGG	6634	CCGGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGGUUC	25010
6784	AGAUCCG G GAUGUUG	6635	CAACAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGAUUC	25011
6785	GAUCGCG G AAGUUGC	6636	GCAACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGCAUC	25012
6810	CUUCUUU G AUGAUUU	6637	ACAAUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGAGAAG	25013
6813	CUUUGAU G AUUGUGU	6638	AGCAUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAAGAG	25014
6829	UAUUUUU G AGCAGAG	6639	CUUGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGAUUA	25015
6835	CUGAGCA G AGAAGCA	6640	UUGUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUCAG	25016
6837	GAGCCAG G AAGCAAG	6641	CGUUGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGGUC	25017
6852	CGUUCGA G ACAGACAA	6642	UUGUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCGAAGC	25018

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6856	CGCAGACA G ACNACCAG	6643	CUGGUUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUCUGCG	25019
6879	GUGUUCU G AUUUGUGU	6644	ACACAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGAACAC	25020
6891	UGUGUCAU G ACCUUGU	6645	ACAAGGGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGACACA	25021
6900	ACCCUUGU G AGCGCAGU	6646	ACUGCCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAAGGGU	25022
6909	AGCGCAC G GCAGCCAA	6647	UUGGCTUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACTUGCGU	25023
6919	CAGCCAC G AGAUGGU	6648	ACCCAUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUGCGUG	25024
6921	GCCAACA G AUGGGUG	6649	CAACCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCGUUGGC	25025
6924	AACGAGU G GGUUGGU	6650	AGCCAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCUGGU	25026
6925	ACGAGUG G GUUGGCUA	6651	UAGCCAAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCUGU	25027
6929	GAUGGGU G GUAGAU	6652	UAUCUAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACCAUC	25028
6934	GUUGGCUA G AUAAGAC	6653	GUUCUAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAGCAAC	25029
6939	CUAGAU G ACCAAGAG	6654	CUUCUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUAUCUAG	25030
6945	AAGACCA G AGUGACAU	6655	AUGUACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGUCUU	25031
6949	CCAGAGU G ACUAAGC	6656	GCUAUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUCUUG	25032
6967	GUUGUUG G GCACAAGA	6657	UCUUGGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAACAAC	25033
6968	UUUGUUG G GCAAGAA	6658	UUCUUGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAACAAC	25034
6974	UGGCGAA G AAUUGAG	6659	CCUCAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUGCCA	25035
6979	AAAGAAU G AGGUAAG	6660	CUUGACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUUCUU	25036
6981	AGAAUGA G GUCAAGGA	6661	UCUUGAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAAUUCU	25037
6987	GAGGUC A G GAGAUUU	6662	AAAUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGACUC	25038
6988	AGGUAAG G AGAAUUC	6663	GAUAUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUGACU	25039
6990	GUCAAGG G AAUUCAG	6664	CUGAAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUUGAC	25040
7002	UUCAGCAU G GAGAGUU	6665	AACUCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGCUGAA	25041
7003	UCAGCAUG G GAGAGUU	6666	AAACUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUGCUGA	25042
7004	CAGCAUG G AGAGUUC	6667	GAACUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAUGCUG	25043
7006	GCAUGGA G AGUUCUU	6668	AAGAAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCCAUGC	25044
7017	UUUCUUU G GACUUGAG	6669	CUCAAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAAAGAAA	25045
7018	UUUUUUU G ACUUGAGG	6670	CCUCAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAAGAAA	25046
7023	UUGGACU G AGGCCGC	6671	GCCGGCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAGUCAA	25047
7025	GGACUUA G GCCGGCA	6672	UUGCCGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAAGUCC	25048
7029	UUGAGGC G GCAACAGC	6673	GCUGUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGCCUCAA	25049
7040	AACAGCCU G GUACUGU	6674	ACAGUAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGCUGUU	25050
7056	UACGUGU G ACAACAGC	6675	GCUGUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAGCUGA	25051
7065	ACACAGC G GUCCUAC	6676	GUGAGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCUGUUG	25052
7092	AAGCAUU G AUCAGGUC	6677	GACUGAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUUGCUU	25053
7102	UACAGUCA G AUUACAUC	6678	GAUGAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGACGUGA	25054
7122	ACCUCAU G ACCUCAU	6679	AUUGAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACGAGUU	25055
7140	AAGUUA G GCNAGUC	6680	GCACUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGAACGUG	25056
7166	ACUUGCG G AGGCUUCC	6681	GGAAGCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCUGGAGU	25057
7168	UCGCGCG G GCUUCCCC	6682	GGGGAAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCGCGCGA	25058

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7183	CCUUCGUC G AUGUUGGA	6683	UCCAAU GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG GACGAAGG	25059
7189	UCGAUGU G GAGUGUG	6684	CGACACUC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG AACAUCA	25060
7190	CGAUGUG G AGUGUGG	6685	CCGACACU GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG CAACUUG	25061
7197	GGAGUGUC G GCUCUCU	6686	AGGAGAGC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG GACACUCC	25062
7216	UAGCAGCC G GAUGUGG	6687	CCAGCAUC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG GCGUCUUA	25063
7217	AGCAGCG G AUGUGGG	6688	CCAGCAU GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG GCGUCU	25064
7223	CGAUGUC G GGGACAG	6689	CUUGUCC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG AGCAUCCG	25065
7224	GAUGUC G GGAAGA	6690	ACUUGCC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG CAGAUCC	25066
7225	GAUGCG G GACAAUC	6691	GACUUGC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG CAGCAUC	25067
7226	AUGUGG G ACAAGUA	6692	UGACUUG GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG CCCAGCAU	25068
7248	ACCGUAC G GUAACAGC	6693	GTUUGUAC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG GUAAACGU	25069
7257	GUAACAGC G GCAACAU	6694	AGUGUUC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG GCUGUAC	25070
7290	GCCUACAU G GUUCCCG	6695	CCGGGAC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG AUGUAGC	25071
7297	UGGUCCC G GUUGGCA	6696	UUGGCAAC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG GGGACCA	25072
7301	UCCCGGU G GCAAGTUG	6697	CAGUUGC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG AACCGGA	25073
7309	GGCAAGU G AGGCAUUG	6698	CAUUGCU GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG AGCUUGCC	25074
7311	CAAGCUGA G GCAUUGC	6699	CGCAUUGC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG UCAGCUUG	25075
7331	AGCCAGC G GCGACAG	6700	CUGUCCG GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG GCUUGCU	25076
7334	CCAGGCG G GACAGCG	6701	CCGUUUC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG GCCGUGG	25077
7335	CAGGCG G ACAGCGC	6702	GCCGUGU GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG CGCCGUG	25078
7341	CGGACAGC G GCGGAU	6703	AUUCGCG GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG GCGUCCG	25079
7345	CAGGCGC G GAAUCAUG	6704	CAUGAUC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG GCGGCTUG	25080
7346	AGCGGCG G AAUCAUGA	6705	UCAUGAU GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG CGGCGCU	25081
7353	GGAAUCA G AAGACGC	6706	GCGUUCU GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG AUGAUUCC	25082
7356	AUCAUGA G AACGCGU	6707	ACAGCGU GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG UUCAUGAU	25083
7368	GCUGUAGU G GAUGGCAU	6708	AUGCAUC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG ACUACAGC	25084
7369	CUGUAGU G AUGGCAUC	6709	GAUGCAU GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG CACUACAG	25085
7372	UAGUGAU G GCAUCUG	6710	CACGAUC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG AUCCACUA	25086
7380	GGCAUGU G GCCACGA	6711	UCCGUGC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG ACGAUGCC	25087
7386	GUGGCCAC G GACGUCCC	6712	GGGACUC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG GUGGCCAC	25088
7387	UGGCCAG G ACGUCCCA	6713	UGGAGCU GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG CGUGGCCA	25089
7396	ACGUCCA G AAUAGAG	6714	CUCUAUU GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG UGGACGU	25090
7402	CAGAAUA G AGCGCAC	6715	GGUGGCU GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG UAAUUCU	25091
7425	AUCAUGA G AAGAAAGU	6716	ACUUCUU GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG UGCAUGAU	25092
7428	AUGCAGNA G AAAGUUGG	6717	CCAACUU GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG UUCUGCAU	25093
7435	AGAAAGU G GACAGAU	6718	GAUCUUC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG AACUUCU	25094
7436	GAAGUUG G ACAGAUCA	6719	UGAUCUG GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG CAACUUC	25095
7440	GUUGGACA G AUCAUGCU	6720	AGCAUGAU GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG UGUCCAC	25096
7449	AUCAUGU G AUUUGGU	6721	ACCAAGAU GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG AGCAUGAU	25097
7455	CUGAUCU G GUGUCU	6722	AGAGACAC GGA GCGUUAAGGC UCCUUAAGGA GCGUUAAGGC UCCGG AAGAUCA	25098

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7479	GUAGUAGU G AACCCGUC	6723	GACGGGUU GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG ACUACUAC	25099
7491	CCGUCUGU G AAGACAGU	6724	ACUGUCUU GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG ACAGACGG	25100
7494	UCUGUGAA G ACAGUACG	6725	CGUACUGU GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG UUCACAGA	25101
7502	GACAGUAC G AGAAGCCG	6726	CGCGUUCU GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG GUCUGUC	25102
7504	CAGACGA G AAGCCGGA	6727	UCCGUCUU GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG GCGUACUG	25103
7510	GAGAAGC G GAUUUUG	6728	CAAAUUC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG GGUUUCUC	25104
7511	AGAAGCCG G AAUUUUGA	6729	UCAAAU GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG GCGUUCU	25105
7518	GAAUUUU G AUCACGGC	6730	GCCGUGAU GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG AAAAUUCC	25106
7524	UUGAUCAC G GCGCGAGC	6731	GCUGCGGC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG GUGAUCAA	25107
7533	GCCGCAGC G GUGACGCU	6732	AGCGUCAC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG GCUUGCGC	25108
7536	GCAGCGGU G ACGCUUUG	6733	CAAAAGCU GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG ACCGUCG	25109
7544	GACGCUUU G GAGAAUUG	6734	CAUUCUCC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG AAAGCGUC	25110
7545	ACGCUUUG G GAGAAUGG	6735	CCAUUUC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG CAAAGCGU	25111
7546	CGCUUUG G AGAAUGGA	6736	UCCAUCU GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG CCAAGCG	25112
7548	CUUUGGA G AAUGGAGC	6737	GCUCAUU GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG UCCCAAAG	25113
7552	GGGAGAAU G GAGCAAGC	6738	GCUUGCUC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG AUUCUCCC	25114
7553	GGAGAAUG G AGCAAGCU	6739	AGCUUGCU GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG CAUUCUCC	25115
7568	CUCUGUUU G GAACGCNA	6740	UUGCGUUC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG AAACAGAG	25116
7569	UCUGUUUG G AACGCAAC	6741	GUUGCGUU GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG CAAACAGA	25117
7588	UUGCCAUUC G GACUCUGC	6742	GCAGAGUC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG GAUGGCGAG	25118
7589	UGCCAUUG G ACUCUGCC	6743	GGAGAGUC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG GGAUGGCA	25119
7609	UCAUGCGU G GGGUUGG	6744	CCAACCC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG ACGCAUGA	25120
7610	CAUGCGUG G GGUUGGU	6745	ACCAACC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG CACGCAUG	25121
7611	AUGCGUGG G GGUUGGU	6746	AACCAACC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG CCACGCAU	25122
7612	UGCGUGGG G GUUGGUUG	6747	CAACCAAC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG CCCACGCA	25123
7616	UGGGGUU G GUUGUCAU	6748	AUGACAAC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG AACCCCA	25124
7640	CAUAAAU G GACACUCA	6749	UGAGUGUC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG AUGUUAUG	25125
7641	AUAACAUG G ACACUCAU	6750	AUGAGUGU GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG CAUUAU	25126
7653	CUCAUAAA G AACAUUGA	6751	UCCAUGUU GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG UUAUAGAG	25127
7659	AAGAACAU G GAAAAACC	6752	GGUUUUC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG AUGUUCUU	25128
7660	AGAACAU G AAAAACCA	6753	UGGUUUU GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG CADGUUCU	25129
7669	AAAAACA G GACUAAAA	6754	UUUUAUC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG UGUUUUUU	25130
7670	AAACACAG G ACUAAAAA	6755	UUUUUAGU GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG CUGGUUUU	25131
7679	ACUAAAAA G AGGUGGGG	6756	CCCCACCU GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG UUUUUAUG	25132
7681	UAAAAAGA G GUGGGGCA	6757	UGCCCCAC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG UCUUUUUA	25133
7684	AAAGAGGU G GGGCAAAA	6758	UUUUUCCC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG ACCUCUUU	25134
7685	AAAGAGGU G GGCAAAAG	6759	UUUUUCCC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG ACCUCUUU	25135
7686	AGAGGUGG G GCAAAAAG	6760	CCUUUUGC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG CCACUCUU	25136
7693	GGGCAAAA G GACGCACC	6761	GGUGCGUC GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG UUUUGCCC	25137
7694	GGCAAAAG G ACGCACC	6762	AGGUGCGU GGA GCGUUUAGGC UCCCUUCAGGA GCGUUUAGGC UCCGGG CUUUUGCC	25138

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7704	CGCACCUU G	GGAGAGGU	6763	ACCUUCC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAGGUGCG	25139
7705	GCACCUUG G	GAGAGGUU	6764	AACCUUC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAGGUGC	25140
7706	CACCUUG G	AGAGGUU	6765	AAACCUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAAGGUG	25141
7708	CCUUGGGA G	AGGUUUGG	6766	CCAAACU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCCAAGG	25142
7710	UUGGGAGA G	GUUUGGAA	6767	UCCAAAC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCCCCAA	25143
7715	AGAGGUU G	GAAAGAAA	6768	UUUUUUC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAACCUUC	25144
7716	GAGGUUG G	AAAGAAAG	6769	CUUUUUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAAACCU	25145
7720	UUUGGAAA G	AAAGACUC	6770	GAGUCUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUCCAAA	25146
7724	GAAAGAAA G	ACUCAACC	6771	GGUUGAGU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUUC	25147
7734	CUCAACCA G	AUGACAAA	6772	UUUGUCAU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGUUGAG	25148
7737	AACCAGAU G	ACAAAAGA	6773	UCUUUUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCUGGUU	25149
7744	UGACAAAA G	AAGAGUUC	6774	GAACUCUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUACA	25150
7747	CAAAAGAA G	AGUUCACU	6775	AGUGAACU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUUG	25151
7757	GUUCACUA G	GUACCGCA	6776	UGCGGUAC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAGUGAAC	25152
7768	ACCGCAA G	AGGCCAUC	6777	GAUGGCUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUGCGGU	25153
7770	CGCAAGA G	GCAUCAU	6778	AUGAUGGC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUUUUGC	25154
7780	CCAUAUC G	AAGUCGAU	6779	AUCGACUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAUGAUGG	25155
7786	UGCAAGUC G	AUGGCUCA	6780	UGAGCGAU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GACUUCGA	25156
7797	CGUCACG G	GCAAAACA	6781	UGUUUUGC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCUGAGCG	25157
7811	ACACGCCA G	GAAAGAAG	6782	CUUCUUUC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGCGUGU	25158
7812	CACGCCAG G	AAAGAAGG	6783	CCUUCUUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUGGCGUG	25159
7816	CCAGGAAA G	AAGGCAU	6784	AUUGCCUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUCCUGG	25160
7819	GAAAGAA G	GCAUUGUC	6785	GACAUUGC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCUUUCC	25161
7831	AUGUCACU G	GAGGGCAU	6786	AUGCCCUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUGACAU	25162
7832	UGUCACUG G	AGGGCAUC	6787	GAUGCCCU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGUGACA	25163
7834	UCACUGGA G	GCAUCCCA	6788	UGGAUGCC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAGUGA	25164
7835	CACUGGAG G	GCAUCCAG	6789	CUGGAUGC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCCAGUG	25165
7850	AGUCUCUA G	GGCACACG	6790	CUGUGCCC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAGAGACU	25166
7851	GUUCUAG G	GCACACGC	6791	CGUGUGCC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUAGAGAC	25167
7852	UCUCUAGG G	GCACAGCA	6792	UGCUGUGC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCUAGAGA	25168
7866	GCAAAACU G	AGAUGGCU	6793	AGCCAUCU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUUUUUC	25169
7868	AAACUGA G	AUGGCUGG	6794	CCAGCCAU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAGUUUU	25170
7871	ACUGAGAU G	GUUGGUUG	6795	CGACCCAG GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCUCAGU	25171
7875	AGAUGGCU G	GUCAACG	6796	CGUUCGAC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCCAUUC	25172
7879	GGCUGGUC G	AACGGAGG	6797	CCUCCGUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GACCAGCC	25173
7883	GGUCGAAC G	GAGGUUUC	6798	GAUCCGUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUCGACC	25174
7884	GUGGAAC G	AGGUUUUC	6799	AGAAACCU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUCGAC	25175
7886	CGAACCGA G	GUUUCUCG	6800	CGAGAAC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCGUUCG	25176
7894	GUUUCUC G	AACCGGUC	6801	GACCGGUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAGAAACC	25177
7899	CUCGAACC G	GUCCGAAA	6802	UUUCCGAC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGUUCGAG	25178

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7903	AACGGUC G GAAAAGUG	6803	CACUUDUC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	GACCGGUU	25179
7904	ACCGGUC G AAAAGUGA	6804	UACUUUU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	CGACCGGU	25180
7911	GGAAAAGU G AUUGACCU	6805	AGGUCAAU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	ACUUUUCC	25181
7915	AAGUGAUU G ACUUGGA	6806	UCCAAGU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	AUUCACUU	25182
7921	UUGACCUU G GAUGUGGA	6807	UCCACAUC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	AAGGUCAA	25183
7922	UGACCUUG G AUGUGGA	6808	UUCCAAU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	CAAGGUCA	25184
7927	UUGAUGU G GAAGAGGC	6809	GCCUUCUC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	ACAUCCAA	25185
7928	UGAUGUG G AAGAGGCG	6810	CGCCUUCU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	CACAUCCA	25186
7931	AUGUGGA G AGGCGGUU	6811	AACCGCU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	UCCACAU	25187
7933	GUGAAGA G GCGGUUGG	6812	CCAACCGC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	UCUUCAC	25188
7936	GAAGAGGC G GUUGGUGU	6813	ACACCAAC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	GCCUUCU	25189
7940	AGGAGGU G GUUUUACU	6814	AGUAACAC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	AACCGCUU	25190
7953	UACUUAU G GCAACCCA	6815	UGGUUUC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	AUAUAGUA	25191
7967	CCAAAAA G AGUCCAAG	6816	CUUGGACU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	UUUUUUGG	25192
7975	GAGUCCAA G AAGUCAGA	6817	UCUGACUU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	UUGGACUC	25193
7982	AGAGUCA G AGGGUACA	6818	UGUACCUU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	UGACUUCU	25194
7984	AAGUCAGA G GUUACACA	6819	UGUGUACC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	UCUGACUU	25195
7985	AGUCAGAG G GUACACRA	6820	UUGUGUAC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	CUCUGACU	25196
7995	UACACAAA G GCGGUUCC	6821	GGACCGCC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	GGGACCGC	25200
7996	ACACAAAG G GCGGUUCC	6822	GGGACCGC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	CGGGACCG	25201
7999	CRAAGGC G GUCCCGGA	6823	UCCGGGAC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	AUGUCCGG	25202
8005	GCGGUCCC G GACAUGAA	6824	UUAUGUC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	UUCADGUC	25203
8006	CGGUUCCG G ACAUGAAG	6825	CUUCAUGU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	AUAACUUU	25204
8011	CCGGACAU G AAGAGCCC	6826	GGGCUUUU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	CAUAACUU	25205
8014	GACAUGAA G AGCCCCAA	6827	UUGGGGUU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	AUCCAUAA	25206
8038	AAGUUUAU G GAUGGAAC	6828	GUUCCAUU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	CAUCCAUAA	25207
8039	AAGUUUUG G AUGGAACA	6829	UGUUCCAU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	ACUCCAUU	25208
8042	UUAUGGAU G GAACAUUG	6830	CAUUGUUC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	AUGUGUAC	25209
8043	UAUGGAUG G AACAUIUGU	6831	ACAAUGUU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	UUAUGUGU	25210
8058	GUACACCAU G AAGAGUGG	6832	CCACUCUU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	ACUCUUA	25211
8061	ACCAUGAA G AGUGGAGU	6833	ACUCCACU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	CACUUCU	25212
8065	UGAAGAGU G GAGUGGAU	6834	AUCCACUC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	ACUCCAUU	25213
8066	GAAGAGUG G AGUGGAUG	6835	CAUCCACU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	ACUCCAUU	25214
8070	AGUGGAGU G GAUGUGUU	6836	AACACAUC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	AGUAGAAC	25215
8071	GUGGAGUG G AUGUGUUC	6837	GAACAAU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	AGAAGGUC	25216
8084	GUUCUACA G ACCUUCUG	6838	CAGAAGUU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	ACAACACU	25217
8092	GACUUCU G AGUGUUGU	6839	ACAACACU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	ACAACACU	25218
8101	AGUGUUGU G ACACCCUC	6840	GAGGGUGU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	ACAACACU	25219
8116	UCCUUUGU G ACAUCGGA	6841	UCCGAUGU GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	ACAACACU	25220
8122	GUGACAUC G GAGAGUCC	6842	GGACUCUC GGA GCCGUUAGGC	UCCCUUCACAGGA	GCCGUUAGGC	UCCGGG	GAUGUCAC	25221

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8123	UGACAUCG G AGAGUCCU	6843	AGGACUCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CGAUGUCA	25219
8125	ACAUCGGA G AGUCCUG	6844	CGAGGACU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UCCGAUGU	25220
8143	CAAGUCU G AGGUUGAA	6845	UUCACCUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG AGCACUUG	25221
8145	AGUGCUGA G GUUGAAGA	6846	UCUUAAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UCAGCACU	25222
8149	CUGAGGU G AAGAGCAU	6847	AUGUCUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG AACUCAG	25223
8152	AGUUGNA G AGCAUAGG	6848	CUUAUCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UUCAACCU	25224
8159	AGAGCAUA G GACGAUUC	6849	GAUUGUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UAUUCUCU	25225
8160	GAGCAUAG G ACGAUUG	6850	CGAAUCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CUAUGCUC	25226
8163	CAUAGGAC G AUUCGGGU	6851	ACCCAAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG GUCCUUG	25227
8168	GACGAUUC G GGUCCUUG	6852	CAAGGAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG GAAUCGUC	25228
8169	ACGAUUC G GUCCUUGA	6853	UCAAGGAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CGAAUCGU	25229
8176	GGUCCUU G AAUUGGU	6854	AACCAUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG AAGACCC	25230
8181	CUUGAAU G GUUGAGGA	6855	UCCUAAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG AUUUAAG	25231
8185	AAUUGGU G AGGACUGG	6856	CCAGUCCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG AACCAUU	25232
8187	AUGGUUA G GACUGGU	6857	AGCCAGUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UCAACCAU	25233
8188	UGUUGAG G ACUGGCU	6858	CAGCCAGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CUAACCA	25234
8192	UGAGGACU G GCUGCACC	6859	GGUGCAG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG AGUCCUA	25235
8201	GCUGACC G AGGCCNA	6860	UUGGCCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG GUGCAGC	25236
8203	UGCACCAG G GGCACAG	6861	CCUUGCC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UCGUGCA	25237
8204	GCACCAG G GCCAAGG	6862	CCUUGCC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UCGUGGC	25238
8210	AGGCCAA G GGAUUUU	6863	AAAUUCC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UUGGCCU	25239
8211	GGCCACAG G GAUUUUG	6864	CAAAUUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CUUGGCC	25240
8212	GGCCACAG G AAUUUUG	6865	GCAAAUUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CCUUGGCC	25241
8223	UUUUGGU G AAGGUGCU	6866	AGCACCUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG ACGCAAA	25242
8226	UGCUGAA G GUGCUCUG	6867	CAGAGCAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UUCAGCA	25243
8247	UACAUGCC G AAAGUCAU	6868	AUGACUUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG GGCAUGUA	25244
8257	AAGUCAUA G AGAAGAU	6869	CAUCUUCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UAUGACUU	25245
8259	GUCAUAGA G AAGAUGGA	6870	UCCAUUUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UCUAUGAC	25246
8262	AUAGAGAA G AUGGAGCU	6871	AGUCUUAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG UUCUUAU	25247
8265	GAAGAGU G GAGCUGCU	6872	AGCAGCUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG AUCUUCUC	25248
8266	AGAAGAU G AGCUGCUC	6873	GAGCAGUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CAUCUUCU	25249
8282	CCAACGC G GUAUGGG	6874	CCCCAUAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG GCGUUGG	25250
8287	GCCGGUUAU G GGGGGGA	6875	UCCCCCUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG AUACCGGC	25251
8288	CCGGUUAU G GGGGGGAC	6876	GUCCCCUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CAUACCGG	25252
8289	CGUAUUG G GGGGACU	6877	AGUCCCC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CCAUACCG	25253
8290	GUUAUUG G GGGGACUG	6878	CAGUCCCC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CCCAUACC	25254
8291	GUUAUGGG G GGGACUGG	6879	CCAGUCCC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CCCCACUAC	25255
8292	UAUGGGGG G GGACUGGU	6880	ACCAGUCC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CCCCACUA	25256
8293	AUGGGGG G GACUGGUC	6881	GACCAGUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CCCCACU	25257
8294	UGGGGGGG G ACUGGUCA	6882	UGACCAGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGG CCCCACCA	25258

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8298	GGGGGACU G GUACAGAA	6883	UUUCUGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCCCCC	25259
8303	ACUGGUCA G AAACCCAC	6884	GUGGGUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGACCAGU	25260
8318	ACUCUCAC G GAUUCCA	6885	UGGAUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGAGAGU	25261
8319	CUCUCAC G AAUCCAC	6886	GUGGAUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGAGAG	25262
8332	CCAGCAG C AGAUGAU	6887	AUACAUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGCUGG	25263
8334	ACGACAGA G AUGUAUG	6888	CAUAUACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGUGCGU	25264
8342	GAUGUAU G GGUGAGUC	6889	GACUCACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUACAUC	25265
8343	AUGUAUUG G GUGAGUCG	6890	CGACUCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUAUACU	25266
8346	UAUUGGGU G AGUGGAGC	6891	GCUCGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCCAUA	25267
8351	GGUGAGUC G AGCUUCAG	6892	CUGAAGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACUCACC	25268
8359	GAGCUUCA G GCAUUGUG	6893	CACAUUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAAGCUC	25269
8367	GGCAUUGU G GUACAUUC	6894	GAAUGUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUUGCC	25270
8379	CAUUCAGU G AAUAUGAC	6895	GUCAUAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACTUGAUG	25271
8385	GUGAAUUA G ACCAGCCA	6896	UGGCUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUAUCAC	25272
8394	ACCAGCCA G GUGCUCCU	6897	AGGAGCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGCUGGU	25273
8404	UGCUCCUA G GAAGAAUG	6898	CAUUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGGAGCA	25274
8405	GCUCUAG G AAGAAUGG	6899	CCAUUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUAGGAGC	25275
8408	CUUAGGAA G AAUGGAAA	6900	UUUCCAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUAGG	25276
8412	GGAGAAU G GAAAAAG	6901	CUUUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCUUC	25277
8413	GAAGAAUG G AAAAAAG	6902	CCUUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUCUUC	25278
8420	GGAAAAA G GACCUGGA	6903	UCCAGGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUUUUC	25279
8421	GAAGAAAG G ACUUGGAA	6904	UUCCAGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUUUUC	25280
8426	AAGGACCU G GAAGGGAC	6905	GUCCCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGUCUUC	25281
8427	AGGACCUU G AAGGGACC	6906	GGUCCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUCCU	25282
8430	ACUUGGAA G GGACCCCA	6907	UGGGGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUAGU	25283
8431	CUUGGAG G GACCCCAA	6908	UUGGGGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCCAGG	25284
8432	CUGGAAG G ACCCCAU	6909	AUUGGGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCCAG	25285
8443	CCCAUAC G AGGAAGAU	6910	AUCUUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUUAUGG	25286
8445	CAUAACGA G GAAGAUGU	6911	ACAUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGUAUUG	25287
8446	AAUACGAG G AAGAUGUA	6912	UACAUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCGUUUU	25288
8449	ACGAGGAA G AUGUAAC	6913	GUUUACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUUCGU	25289
8460	GUAAACUU G GGAAGUGG	6914	CCACUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGUUUAC	25290
8461	UUAACUUG G GAUGUGGA	6915	UCCACUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGUUUA	25291
8462	AAACUUG G AAGUGGAA	6916	UCCACAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAAGUUU	25292
8467	UGGAAGU G GAACCAGG	6917	CCUGGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUCUCC	25293
8468	GGGAAGU G AACACGGG	6918	CCUGGUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUCUCC	25294
8474	UGGAACCA G GCGGUGG	6919	CCACCGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUCCA	25295
8475	GGAACCA G GCGGUGG	6920	CCACCGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGUUUCC	25296
8478	ACCAGGGC G GUGGGAAA	6921	UUUCCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCUUGU	25297
8481	AGGGCGGU G GGAAPACC	6922	GGUUUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCGCCU	25298

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8482	GGGGGUG G GAAACCC	6923	GGGUUUC GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG CACGCCC	25299
8483	GGCGGUG G AAACCCC	6924	GGGUUUU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG CCACGCC	25300
8503	UCAAUCA G ACACAGU	6925	ACUGGUG GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG UGAGUUA	25301
8520	AAAACAA G AACAGAU	6926	AUCUGUU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG UGUAUUU	25302
8525	CAAGAAG G GAUGAAC	6927	GUUCAU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG UGUUUGU	25303
8526	AAAGACG G AUGAACG	6928	GUUCAU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG CUGUCUU	25304
8530	ACAGGAU G AACGACU	6929	GAGUCUU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG AAUCUUG	25305
8534	GAUGAAC G ACUAGGC	6930	GCCUGAU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG GUUCAUC	25306
8540	ACGACUA G GCGUGAU	6931	ACUCACG GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG UGAGUGU	25307
8545	UCAGGCG G AGUACAGU	6932	ACUGUACU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG ACGCUGA	25308
8556	UACAGUUC G ACGUGCA	6933	UGCCACG GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG GAACUGA	25309
8561	UUCGACG G GCACACG	6934	CGUGUGC GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG ACGUGAA	25310
8569	GGCACCAC G AUGAGAC	6935	GUUCUACU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG GUGUGCC	25311
8572	ACCACGAU G AGAACAC	6936	GUGGUGU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG AUCGUGU	25312
8574	CACGAUG G AACACCC	6937	GGGUGUU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG UCAUCUG	25313
8588	CCCAUAU G AACUGGA	6938	UCCAGUU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG UAUAUGG	25314
8594	UAGAACU G GAUAUUC	6939	GAUAGUU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG AGGUUUA	25315
8595	AGAACCU G AACUAUA	6940	UGAUAUU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG CAGGUUCU	25316
8605	ACTAUAC G GAGUUAU	6941	AUAACUG GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG GUGAUAU	25317
8614	GAGUAU G AUGUGAG	6942	CUUCACU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG AUAACUG	25318
8619	UAUGAU G AAGCCAC	6943	GUGGUGU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG ACAUAUA	25319
8629	AGCCACA G GUCGCGC	6944	GGCGGAC GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG UGUGGCU	25320
8646	AGUUCGU G GUCAAUG	6945	CAUUGAC GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG AGCGAACU	25321
8653	UGGUCAU G GAGUGUC	6946	GACCACU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG AUAGACA	25322
8654	GGUCAU G AGUGUUA	6947	UGACCACU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG CAUUGAC	25323
8658	AAUGGAGU G GUCAGGU	6948	AGCCUGAC GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG ACUCCAU	25324
8663	AGUGGUA G GCUCCUCU	6949	AGAGGAC GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG UGACCACU	25325
8681	AAAACCAU G GACACCA	6950	UGGUGUC GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG AUGUUUU	25326
8682	AAACCAU G GACACCAU	6951	AUGGUGU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG CAUGUUU	25327
8683	AAACCAU G ACACCAU	6952	GAUGGUG GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG CCAUGUU	25328
8694	ACCAUAC G AAUGUAC	6953	GUAACAU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG GUGAUGU	25329
8709	ACCACCAU G GCAUGAC	6954	GUCAUGG GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG AUGUGGU	25330
8715	AUGGCCAU G ACUGACAC	6955	GUGUCAGU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG AUGGCAU	25331
8719	CAUGACU G ACACUACU	6956	AGUAUGU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG AGUCAUG	25332
8734	UCCCUUC G GCGAGCAG	6957	CUGUGCC GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG GAAGGAG	25333
8735	UCCCUUC G GCGAGCAG	6958	CGUGUGC GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG CGAAGGA	25334
8744	GCAGCAG G AGUGUUA	6959	UGAACAU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG CGUGUGC	25335
8755	UGUUCAAA G AGAAGGUG	6960	CACCUUCU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG UUUAGAA	25336
8757	UUCAAAG G AAGGUGA	6961	UCCACCUU GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG UCUUGAA	25337
8760	AAAGAGAA G GUGGACAC	6962	GUGUCCAC GGA GCGUUAGGC UCCUUCUAGGA GCGUUAGGC UCCGG UUCUUUU	25338

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8763	GAGNAGGU G GACACGAA	6963	UUCGUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUUCUC	25339
8764	AGAGGUG G ACACGAA	6964	UUUCGUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACCUUCU	25340
8769	GUGGACAC G AAGCUCC	6965	GGAGCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGUCAC	25341
8779	AAGCUCCU G AACGCCA	6966	UGGCGGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGACUU	25342
8788	AACGCCA G AAGGAGU	6967	CACUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGCGGUU	25343
8791	CGCAGAA G GAGUGAG	6968	CUUCACUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUGGCG	25344
8792	GCCAGAAG G AGUGAAGU	6969	ACUUCACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCUGGC	25345
8796	GAAGGAGU G AAGUACGU	6970	ACGUACUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCUUC	25346
8812	UGUCUAAU G AGACCACC	6971	GGUGGUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGAGCA	25347
8814	CUCAUGA G ACCACCAA	6972	UUGGUGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAUUGAG	25348
8825	CACCAACU G GUUGUGG	6973	CCACACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUUGGUG	25349
8831	CUGGUGU G GCGUUUU	6974	AAAACGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAACGAG	25350
8832	UGGUGUG G GCGUUUUU	6975	AAAACGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACAACCA	25351
8841	GCGUUUU G GCGAGAGA	6976	UCUCUGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAACGCG	25352
8846	UUUGGCCA G AGAAAC	6977	GUUUUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGCCAAA	25353
8848	UGGCCAGA G AAAAACGU	6978	ACGUUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGGCCA	25354
8861	ACGUCCCA G AAGUGCU	6979	AGCACAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGGACGU	25355
8873	GUGCUCU G AGAGGAU	6980	AUUCUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGAGCAC	25356
8875	GCUUCGA G AGGAUUC	6981	GAAUUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGAGAGC	25357
8877	UCUCGAGA G GAAUUCAU	6982	AUGAAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCGAGA	25358
8878	CUCGAGAG G AAUUCADA	6983	UAUGAAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUCGAG	25359
8888	AUUAUAA G AAGGUCA	6984	UGACUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAUGAAU	25360
8892	AUAAGAA G GUCAACAG	6985	CUGUUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUUAU	25361
8913	GCAGCUUU G GGUGCCAU	6986	AUGGCACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAGCUGC	25362
8914	CAGCUUUG G GUGCCAU	6987	CAUGGCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGCUG	25363
8926	CCAUGUUU G AAGAGCAG	6988	CUGUCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAACAUGG	25364
8929	UGUUGAA G AGCAGAAU	6989	AUUCUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAACA	25365
8934	GAGAGCA G AAUCAAUG	6990	CAUUGAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUCUUC	25366
8942	GAAUCAU G GAGGAGCG	6991	CGCUCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUGAUUC	25367
8943	AAUCAUG G AGGAGCGC	6992	GCGUCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUGAUU	25368
8945	UCAUGGA G GAGCGCCA	6993	UGGCGCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAUGUA	25369
8946	CAUUGGAG G AGCGCCAG	6994	CUGGCGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCAUUG	25370
8954	GAGCGCCA G AGAAGCAG	6995	CUGCUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGCGCUC	25371
8956	GCGCCAGA G AGCAGUU	6996	AACUGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGGCGC	25372
8965	AAGCAGUU G AAGAUCCA	6997	UGGAUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACUGCUU	25373
8968	CAGUUGAA G AUCCAATA	6998	UUUUGAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAACUG	25374
8981	AAAAUUUU G GGAUGUG	6999	CCAUCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAUUUUU	25375
8982	AAUUUUU G GAGAUGGU	7000	ACCAUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAAUUU	25376
8983	AAUUUUG G AGAUGGU	7001	CACCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAAAUU	25377
8985	UUUUGGGA G AUGGUGGA	7002	UCCACCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCAAAA	25378

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8988	UGGAGAU G GUGGAUGA	7003	UCAUCCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUCCCA	25379
8991	GAGAUGGU G GAUGAGGA	7004	UCCUCAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAUCUC	25380
8992	AGAUGGUG G AUGAGGAG	7005	CUCCUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACCAUCU	25381
8995	UGGUGGAU G AGGAGCGC	7006	GCGCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCACCA	25382
8997	GUGGAUG G GAGCGCGA	7007	UGCGGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCCAC	25383
8998	UGGAUGAG G AGCGCGAG	7008	CUCGCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCAUCCA	25384
9004	AGGAGCGC G AGGCACAU	7009	AUGUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGUCUCU	25385
9006	GAGCGCGA G GCACAUUC	7010	AGAUGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGCGCUC	25386
9017	ACAUCUGC G GGGGGAU	7011	AUUCGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCAGAUU	25387
9018	CAUCUGCG G GGGGAUG	7012	CAUUCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCAGAU	25388
9019	AUCUGCG G GGAUUGU	7013	ACAUUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGCAGAU	25389
9020	UCUGCGG G GGAUGUC	7014	GACAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCGAGA	25390
9021	UCGCGGG G GAUGUCA	7015	UGACAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCCGAG	25391
9022	UCGCGGG G GAUGUCAC	7016	GUGACAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCCGCA	25392
9048	UACAACAU G AUGGAAA	7017	UUUCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUUGUA	25393
9051	AACAUGAU G GGAAGAG	7018	CUCUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAUGU	25394
9052	ACAUGAU G GAAAGAGA	7019	UCUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCAUGU	25395
9053	CAUGAUG G AAAGAGAG	7020	CUCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUCAUG	25396
9057	AUGGAAA G AGAGAGAA	7021	UUCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUCAU	25397
9059	GGGAAA G AGAGAAA	7022	UUUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUCCU	25398
9061	GAAAGA G AGAAAAA	7023	UUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUUCU	25399
9063	AGAGAGA G AAAAACC	7024	GSUUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCUCU	25400
9073	AAAAACC G GAGAGUUC	7025	GAACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGUUUU	25401
9074	AAACCCG G AGAGUUCG	7026	CGAACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGGUUU	25402
9076	AACCCGA G AGUUCGGA	7027	UCGAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGGUU	25403
9082	GAGAGUUC G GAAGGCC	7028	GGCCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAACUCU	25404
9083	AGAGUUCG G AAAGGCCA	7029	UGGCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAACUCU	25405
9087	UUGGAAA G GCCAAGGG	7030	CCUUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCCGA	25406
9093	AGGCCAA G GGAAGCAG	7031	CUGCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGGCUU	25407
9094	AGGCCAG G GAAGCAGA	7032	UCUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGCU	25408
9095	GGCCAAG G AAGCAGAG	7033	CUCUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUUGGC	25409
9101	GGGAAGCA G AGCCAUUU	7034	AAUUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUCCU	25410
9110	AGCAUUU G GUUCAUGU	7035	ACAUGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUGCU	25411
9119	GUUCAUGU G GCUCGGAG	7036	CUCGAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUGAAC	25412
9124	UGUGGCU G GAGCUCG	7037	GCGAGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGCACA	25413
9125	GUGGUCG G AGUCGCU	7038	AGCGAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGCCAC	25414
9138	CGCUUCU G GAGUUCGA	7039	UCGAACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAAGCG	25415
9139	GCUUCUG G AGUUCGAG	7040	CUGAACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGAAAGC	25416
9145	UGAGUUC G AGGUCUG	7041	CAGAGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAACUCCA	25417
9147	GAGUUCGA G GCUCUGG	7042	CCAGAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGAACUC	25418

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9153	GAGGCUCU G GGUUUCU	7043	AGAAACC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGAGCCUC	25419
9154	AGGCUCUG G GUUUUCUC	7044	GAGAAAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGAGCCU	25420
9166	UUCUCAAU G AAGACCAC	7045	GUGGUUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUGAGAA	25421
9169	UCAAUGAA G ACCACUGG	7046	CCAGUGGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCAUUGA	25422
9176	AGACCACU G GCUUGGAA	7047	UCCCAAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUGGUCU	25423
9181	ACUGGCUU G GAAGAAAG	7048	UUUCUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAGCCAGU	25424
9182	CUGGCUCU G AAGAAAGA	7049	UCUUUCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAGCCAG	25425
9185	GCUUGGAA G AAAGAACU	7050	AGUUCUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCCAAGC	25426
9189	GGAAGAAA G AACUCAGG	7051	CCUGAGUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUCUUCC	25427
9196	AGAACUCA G GAGGAGGU	7052	ACCUCUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGAGUUUC	25428
9197	GAACUCAG G AGGAGGUG	7053	CACCUCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUGAGUUC	25429
9199	ACUCAGGA G GAGGUGUC	7054	GACACUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUGAGU	25430
9200	CUCAGGAG G AGGUGUCG	7055	CGACACUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCUGAG	25431
9202	CAGGAGGA G GUGUCGAG	7056	CUCGACAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUCCUG	25432
9208	GAGGUGUC G AGGGCUCU	7057	CAAGCCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GACACCTC	25433
9210	GGUGUCGA G GGCUGGG	7058	CCCAAGCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCGACACC	25434
9211	GUGUCGAG G GCUUGGGC	7059	GCCCAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCGACAC	25435
9216	GAGGGCUU G GGCUCUCA	7060	UGGAGGCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAGCCUCU	25436
9217	AGGGCUCU G GCUCUCA	7061	UUGAGGCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAGCCCU	25437
9231	CAAAACU G GGUUACAU	7062	AUGUAACC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUUUUUG	25438
9232	AAAACUG G GUUACAU	7063	GAUGUAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGUUUUU	25439
9247	UCCUGCGU G AAGUUGGC	7064	GCCAAGUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACGCAGGA	25440
9253	GUGAAGUU G GCACCCG	7065	CCGGGUGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACUUCAC	25441
9260	UGGCACCC G GCUUGGG	7066	CCCCAGGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGGUGCCA	25442
9265	CCGGCCCU G GGGGCAAG	7067	CUUGCCCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGCCGGG	25443
9266	CCGGCCCU G GGGCAAGA	7068	UCUUGCCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGGCCGG	25444
9267	CGGCCUCG G GCAAGAU	7069	AUCUUGCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAGGCCG	25445
9268	GGCCUGGG G GCAAGAU	7070	GAUCUUGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCCAGGCC	25446
9273	GGGGGCAA G AUCUAUGC	7071	GCAUAGAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGCCCCC	25447
9283	UCUAUGCU G AUGACACA	7072	UGUGUCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCAUAGA	25448
9286	AUGCUGAU G ACACAGCU	7073	AGCUGUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCAGCAU	25449
9295	ACACAGCU G GCUUGGAC	7074	GUCCACAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCUGUGU	25450
9299	AGCUGGCU G GGACACCC	7075	GGGUGUCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCCAGCU	25451
9300	GUGGCGUG G GACACCCG	7076	CGGGUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGCCAGC	25452
9301	CUGGCGUG G ACACCCGC	7077	GCGGGUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAGCCAG	25453
9315	CGCAUCAC G AGAGCUGA	7078	UCAGUCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUGAUGCG	25454
9317	CACACAGA G AGCUGACU	7079	AGUCAGCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCGUGAUG	25455
9322	CGAGAGCU G ACUUGGAA	7080	UCCAAGUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCUCUCG	25456
9327	GCUGACUU G GAAAUGA	7081	UCAUUUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAGUCAGC	25457
9328	CUGACUUG G AAAAUGAA	7082	UUCAUUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAGUCAG	25458

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9334	UGAAAAU G AAGCUAAG	7083	CUUAGCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUUUUCCA	25459
9342	GAAGCUAA G GUGCUUGA	7084	UUAAGCAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUAGCUUC	25460
9349	AGGUGCUU G AGCUGCUU	7085	AAGCAGCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAGCAGCU	25461
9358	AGCUGCUU G AUGGGGAA	7086	UUCCCCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAGCAGCU	25462
9361	UGCUGAU G GGAACAACU	7087	AUGUUCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUCACAGA	25463
9362	GCUGAUG G GGAACAUC	7088	GAUUCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAUCAAGC	25464
9363	CUUGAUG G GAACAUCG	7089	CGAUGUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAUCAAG	25465
9364	UUGAUGG G AACAUCCG	7090	CCGAUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCCAUCAA	25466
9371	GGAAACUC G GCGUCUUG	7091	CAAGACGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GAUGUUC	25467
9383	UCUUGCCA G GGCACUCA	7092	UGAUGGCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGGCAAGA	25468
9384	CUUGCCAG G GCCAUCAU	7093	AUGAUGGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUGGCAAG	25469
9394	CCAUCAU G AGCUCACC	7094	GGUGAGCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUUGAUUG	25470
9420	AAAGUUGU G AAAGUGAU	7095	AUCACUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACAACUUU	25471
9426	GUGAAGU G AUGCGCCC	7096	GGGCGCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACUUCAC	25472
9435	AUGGCCC G GCUUCUGA	7097	UCAGCAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GGGCGCAU	25473
9442	CGGCGUCU G AUGGAAGA	7098	UCUUCCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGCAGCGG	25474
9445	CUGCUGAU G GAAGAACC	7099	GGUUCUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUCAGCAG	25475
9446	UCUGAUG G AAGAACC	7100	CGGUUCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAUCAGCA	25476
9449	UGAUGGAA G AACCGUCA	7101	UGAGGCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUUCAUCA	25477
9459	ACCGUCA G AAGUUAU	7102	AUAACAUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUAGCGU	25478
9460	CCGUCAUG G AUGUUAUC	7103	GAUAAACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAUGACGG	25479
9473	UAUCUCCA G AAGAUAUC	7104	GAUCUUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGGAGUA	25480
9475	UCUCCAGA G AAGAUCAG	7105	CUGAUCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCUGGAGA	25481
9478	CCAGAGAA G AUCAGAGG	7106	CTUCUGAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUCUCUGG	25482
9483	GAAGAUC A AGGGGGAG	7107	CUCCCCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGAUCUUC	25483
9485	AGAUCAGA G GGGGAGUG	7108	CACUCCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCUGAUCU	25484
9486	GAUCAGAG G GGGAGUGG	7109	CCACUCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCUGAUC	25485
9487	AUCAGAGG G GGAGUGGA	7110	UCCACUCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCUCUGAU	25486
9488	UCAGAGGG G GAGUGGAC	7111	GUCCACUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCCUCUGA	25487
9489	CAGAGGGG G AGUGGACA	7112	UGUCCACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCCUCUG	25488
9493	GGGGGAGU G GACAAGUU	7113	AACUUGUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACUCCCCC	25489
9494	GGGGAGUG G ACAGUUG	7114	CAACUUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CACUCCCC	25490
9534	ACCAACCU G GCGUCCA	7115	UGGACCGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGGUUGGU	25491
9546	GUCACGCU G GUGAGGAU	7116	AUCCUAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGCUGGAC	25492
9549	CAGCUGGU G AGGAUGAU	7117	AUCAUCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACCAGCUG	25493
9551	GCTUGUGA G GAUGAUGG	7118	CCAUAUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCACCAGC	25494
9552	CUGGUGAG G AUGAUGGA	7119	UCCAUAUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCACCAG	25495
9555	GUGAGGAU G AUGGAAGG	7120	CCUUCCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUCCUAC	25496
9558	AGGAUGAU G GAAGGGGA	7121	UCCCUUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUCAUCCU	25497
9559	GGAUGAU G AAGGGGAA	7122	UUCCCUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAUCAUCC	25498

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9562	UGAUGGAA G GGAAGGA	7123	UCCUCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAUCA	25499
9563	GAUGAAG G GGAAGGAG	7124	UCCUCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCCAU	25500
9564	UGGAAGG G GAAGAGU	7125	ACUCCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUCCAU	25501
9565	UGGAAGG G AAGGAGU	7126	CACUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUCCAU	25502
9568	AAGGGAA G GAGUGAU	7127	AAUACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCCU	25503
9569	AGGGGAG G AGUGAUG	7128	CAUACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCCU	25504
9573	GAAGGAGU G AUUGGCC	7129	GGGCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCCU	25505
9577	GAGUGAU G GCCCAGU	7130	AUCUGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUACUC	25506
9583	UUGGCCA G AUGUGUG	7131	CACAUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGGCCAA	25507
9586	GCCCAGU G AUGUGAG	7132	CUCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUGGC	25508
9591	GAUGAUG G GAGAAUCU	7133	AGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUCU	25509
9592	AUGAUGU G AGAAACUC	7134	GAGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACAU	25510
9594	GAUGUGA G AAACUCAC	7135	GUGAGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCACUC	25511
9607	UCACAAA G GGAAGGA	7136	UCCUCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUGA	25512
9608	CACAAA G GAAGGAC	7137	GUCCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUGU	25513
9609	ACAAAAG G AAAGACC	7138	GUCCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUUGU	25514
9613	AAGGAAA G GACCCAA	7139	UUUGGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCCU	25515
9614	AGGAAAG G ACCCAAAG	7140	CUUUGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCCU	25516
9626	CAAGUCA G GACUUGG	7141	GCAGGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGACU	25517
9627	AAAGUCAG G ACCUGGU	7142	AGCAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGACU	25518
9632	CAGACCU G GCUGUUG	7143	CAACAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGUCCU	25519
9640	GGCUGUU G AGAUGGG	7144	CCCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAACAGC	25520
9642	CUGUUUA G AAUGGGGA	7145	UCCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAACAG	25521
9646	UUGAGAU G GGAAGAA	7146	UUUCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCU	25522
9647	UGAGAAU G GGAAGAA	7147	UUUCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUCU	25523
9648	GAGAAUG G GAAGAAAG	7148	UUUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUUC	25524
9649	AGAAUGG G AGAAAGA	7149	UUUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUUC	25525
9652	AUGGGAA G AAAGACU	7150	GAGUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCCU	25526
9656	GGAAGAA G ACUCAGC	7151	GGCUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCCU	25527
9669	AGCCGCU G GCUGUCAG	7152	CUGACAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGCGCU	25528
9679	CUGUCAGU G GAGUAGC	7153	GUCAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGAC	25529
9680	UGUCAGU G AGAUGACU	7154	AGUCAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUGA	25530
9682	UCAGUGA G AUGACUGU	7155	ACAGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCACU	25531
9683	GUGAGAU G ACUGUGU	7156	CACACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUCC	25532
9693	GAGUGUGU G GUAAAGC	7157	GGCUUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACAU	25533
9705	AAGCCCU G GACGAUCG	7158	CAGUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGGCU	25534
9706	AGCCCCU G ACGAUCG	7159	GCGAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGGGC	25535
9709	CCUUGGAC G AUCGUUU	7160	AAAGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCCAGG	25536
9753	AUGUCAA G GUUCGCA	7161	UUUGGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGACU	25537
9763	UUCGCAA G ACAUCAA	7162	UUUGAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGCGAA	25538

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9772	ACAUCCAA G AGUGGAAA	7163	UUUCCACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGGAUGU	25539
9776	CAAGAGU G GAAACCGU	7164	ACGGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCUUGG	25540
9777	CAAGAGU G AAACCGUC	7165	GACGUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUCUUG	25541
9790	CGUCAACU G GAUGGUU	7166	AUACCAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUUGACG	25542
9791	GUCAACUG G AUGGUU	7167	CAUACCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUUGAC	25543
9794	AACUGAU G GUUUGAUU	7168	AAUCAUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCAGUU	25544
9799	GAUGGUU G AUUGGCAG	7169	CUGCCAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUACCAUC	25545
9803	GUUUGAUU G GCAGCAGG	7170	CTUGCUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCAUAC	25546
9810	UGGCAGCA G GUUCCAUU	7171	AUUGGAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUGCCA	25547
9838	AUUUCACU G AAUUGAUC	7172	GAUCAUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGAAAU	25548
9843	ACUGAAUU G AUCAUGAA	7173	UUCAUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUCAGU	25549
9849	UUGAUCAU G AAAGUUG	7174	CCAUCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGAUCAA	25550
9853	UCAUGAAA G AUGGAAGA	7175	UCUUCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCAUGA	25551
9856	UGAAGAU G GAAGAACA	7176	UGUUCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUUUCA	25552
9857	GAAAGAU G AAGAACAC	7177	GUGUUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCUUUC	25553
9860	AGAUGGAA G AACACUGG	7178	CCAGUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCCAUCU	25554
9867	AGAACACU G GUGGUUCC	7179	GGAAACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUUGUCU	25555
9870	ACACUGGU G GUUCCAUG	7180	CAUGGAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAGUGU	25556
9881	UCCAUGCC G AGGACAGG	7181	CCUGUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGCUGGGA	25557
9883	CAUGCCGA G GACAGAUU	7182	AUCCUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGGCAUG	25558
9884	AUGCCGAG G ACAGGAUG	7183	CAUCCUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGGCAU	25559
9888	CGAGACA G GAUGAAUU	7184	AAUUCUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUCCUCG	25560
9889	GAGGACAG G AUGAAUUG	7185	CAAUUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGUCCUC	25561
9892	GACAGGAU G AAUUGGUA	7186	UACCAAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCUGUC	25562
9897	GAUGAAUU G GUAGGCAG	7187	CUGCCUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUCUAC	25563
9901	AAUUGGUA G GCAGAGCU	7188	AGUCUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACCAAUU	25564
9905	GUUAGGCA G AGUUGCA	7189	UGCGAGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCUACC	25565
9922	UAUUCUCA G GGGCCGGA	7190	UCCGGCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGAGAUU	25566
9923	AUUCUCAG G GGCAGGAU	7191	AUCCGGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGAGAU	25567
9924	UCUCCAGG G GCCGGAUG	7192	CAUCCGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUGGAGA	25568
9928	CAGGGGCC G GAUGGAAC	7193	GUUCCAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGCCUCG	25569
9929	AGGGGCCG G AUGGAACG	7194	CGUUCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGCCCUU	25570
9932	GGCCGGAU G GAACGUCC	7195	GGACGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCGGCC	25571
9933	GCCGGAUG G AACGUCUG	7196	CGGACGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCCGGC	25572
9943	ACGUCCUG G ACACUGCU	7197	AGCAGUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGGACGU	25573
9957	GCUUGUCU G GCUAAGUC	7198	GACUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGACAAGC	25574
9975	UAUGCCCA G AUGUGGCU	7199	AGCCACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGGCAUA	25575
9980	CCAGAUGU G GCUGCUUC	7200	GAAGCAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUCUGG	25576
10001	CUUCCACA G AAGAGACC	7201	GGUCUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGGAAG	25577
10004	CCACAGAA G AGACCUGC	7202	GCAGGUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUGUGG	25578

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10006	ACAGAAGA G ACUGCGG	7203	CGCAGGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCUCUGU	25579
10013	AGACUCC G GCUCAUG	7204	CCAUGAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GCAGGUU	25580
10020	CGGCUCAU G GCCAACGC	7205	GCGUUGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUGAGCG	25581
10050	GUCCUGU G AAUUGGU	7206	ACCCAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACAGGAC	25582
10055	UGUAAU G GUUCCUA	7207	UAGGACC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAUUCAC	25583
10056	GUAAUUG G GUCCUAC	7208	GUAGGAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAUUCAC	25584
10066	UCCUACC G GAAGAACC	7209	GGUUCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GGUAGGA	25585
10067	CCUACCG G AAGAACCA	7210	UGGUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CGGUAGG	25586
10070	UACCGAA G AACACGU	7211	ACGUGUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCGGUA	25587
10079	AACACGU G GUCAUCC	7212	GGAUGAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACGUGUU	25588
10093	UCCAUGCA G GAGGAG	7213	CUUCUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGCAUGA	25589
10094	CCAUGCAG G AGGAGU	7214	ACUCUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUGCAUG	25590
10096	AUGCAGGA G GAGAGUG	7215	CCACUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCUGAU	25591
10097	UGCAGGAG G AGAGUGA	7216	UCCACUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCCUGA	25592
10099	CAGGAGG G AGUGAUG	7217	CAUCACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCUCUG	25593
10103	AGGAGAG G GAUGACAA	7218	UUGUCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACUCUCU	25594
10104	GGAGAGUG G AUGACAAC	7219	GUUGUCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CACUCUC	25595
10107	GAGUGAU G ACACAGA	7220	UCUGUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUCCACU	25596
10114	UGACAACA G AGGACAUG	7221	CAUGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGUUGUA	25597
10116	ACAACAGA G GACAUGU	7222	AACAUGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCUGUGU	25598
10117	CAACAGAG G ACAUGUG	7223	CAACUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCUGUG	25599
10125	GACAUGU G GAGGUCUG	7224	CAGACUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AACAUUG	25600
10126	ACAUGU G AGGUCUG	7225	CCAGACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAACAUG	25601
10128	AUGUUGA G GUCUGGAA	7226	UCCACAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCACAU	25602
10133	GGAGGUCU G GAACCGUG	7227	CACGGUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGACUCC	25603
10134	GAGGUCUG G AACCGUGU	7228	ACACGGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAGACUC	25604
10145	CGUGUJU G GAUAGAG	7229	CTUCUAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AACACGG	25605
10146	CGUGUUG G AUAGAGGA	7230	UCCUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAACACG	25606
10150	UUUGGAU G AGGAGAU	7231	AUUCUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UAUCCAA	25607
10152	UGGAUGA G GAGAAUGA	7232	UCAUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCUAUCC	25608
10153	GGAUAGAG G AGAAUGA	7233	UUAUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCUAUC	25609
10155	AUAGAGGA G AAUGAAUG	7234	CAUUCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCUCU	25610
10159	AGGAGAU G AAUGGAUG	7235	CAUCCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUUCUCU	25611
10163	GAUGRAU G GAUGGAAG	7236	CUUCCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUUCAUC	25612
10164	AAUGAAUG G AUGGAAGA	7237	UUAUCCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAUUCAU	25613
10167	GAUGGAU G GAAGACAA	7238	UUGUCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUCCAUUC	25614
10168	AAUGGAUG G AAGACAAA	7239	UUUGUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAUCCAU	25615
10171	GGAUGGAA G ACAAAACC	7240	GGUUUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCAUUC	25616
10185	ACCCAGU G GAGAAUG	7241	GAUUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACUGGGU	25617
10186	CCCCAGU G AGAAUUG	7242	CAUUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CACUGGG	25618

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10188	CCAGUGGA G AAUUGGAG	7243	CUCCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCACUUG	25619
10193	GGAGAAAU G GAGUGAGC	7244	CGUACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUUCUCC	25620
10194	GAGAAAU G AGUGACGU	7245	ACGUACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUCUC	25621
10198	AAUGGAGU G AGUCCCA	7246	UGGACGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCCAU	25622
10213	CAUUAUCA G GAAACGA	7247	UCGUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAUAUUG	25623
10214	AUAUUCAG G AAACGAG	7248	CUCGUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGAAUUA	25624
10220	AGGAAAC G AGAGGACA	7249	UGUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUUUCCU	25625
10222	GAAACGA G AGGACAU	7250	GAUGUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGUUUUC	25626
10224	AAACGAGA G GACAUUG	7251	CAGAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCGUUU	25627
10225	AACGAGAG G ACAUCUGG	7252	CCAGAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCUGUU	25628
10232	GGACAUU G GUGUGGCA	7253	UGCCACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAUUCC	25629
10237	UCUGGUGU G GCAGCCUG	7254	CAGGUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACCAGA	25630
10245	GGCAGCCU G AUUGGCAC	7255	GUGCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGCUGCC	25631
10249	GCCUGAU G GCACAAGA	7256	UCUUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUACAGGC	25632
10256	UGGCACNA G AGCCCGAG	7257	CUCGGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUGCCA	25633
10262	AAGAGCC G AGCCACGU	7258	ACGUGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGUCUU	25634
10271	AGCCACGU G GGCAGAAA	7259	UUUCUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGGGCU	25635
10272	GCACGUG G GCAGAAA	7260	UUUCUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUGGC	25636
10276	CUGGGCA G AAACAUC	7261	GAUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCACG	25637
10287	AACAUCA G GUGGCUAU	7262	AUAGCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUUGU	25638
10290	AUCCAGU G GCUAUCA	7263	UUGUAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUGAU	25639
10307	CCAAGUCA G AGCAUCA	7264	UGAUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGACUUG	25640
10318	CAAUCAUC G GAGUAG	7265	CUCAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUAUUG	25641
10319	AUAUCAUC G AGAUGAGA	7266	UCUCAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAUUAU	25642
10321	UCAUCGA G AUGAGAAG	7267	CUUCUUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGAUGA	25643
10324	UCGGAGAU G AGAAGUAU	7268	AUACUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUCCGA	25644
10326	GGAGUAGA G AAGUAUGU	7269	ACAUACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAUCUC	25645
10335	AAGUAUGU G GAUUAUAU	7270	AUGUAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUACU	25646
10336	AGUAUGUG G AUUACAUG	7271	CAUGUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACAUAU	25647
10344	GAUUAUAU G AGUUCACU	7272	AGUGAACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUAUUC	25648
10356	UCACUAAA G AGAUAUGA	7273	UCAUAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAUUGA	25649
10358	ACUAAAGA G AUAUGAAG	7274	CUUCAUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUUAU	25650
10363	AGAGUAU G AAGACACA	7275	UGUGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUAUUCU	25651
10366	GAUAUGNA G ACACAACU	7276	AGUUGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAUAUUC	25652
10377	ACAACUUA G GUUGAGGA	7277	UCCUACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAGUUGU	25653
10381	CUUUGUU G AGGACACA	7278	UGUGUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACCAAAG	25654
10383	UUGGUUGA G GACACAGU	7279	ACUGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAACCAA	25655
10384	UGGUUGAG G ACACAGUA	7280	UACUGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCACCAA	25656
10398	GUACUGUA G AUAUUAUA	7281	UUAUAUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACAGUAC	25657
10420	UGUAAUA G ACAUAUA	7282	UAUAUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUAUAUA	25658

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10467	UAUUUAGU G GUGUUAGU	7283	ACUAAACAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACUAAAU	25659
10488	AUAGUAA G AAAUUUU	7284	AAAAUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UAAACU	25660
10497	AAAAUUU G AGGAGAA	7285	UUUUCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAAAUUU	25661
10499	AAUUUUGA G GAGAAAG	7286	ACUUUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCAAAUU	25662
10500	AUUUUGAG G AGAAAGUC	7287	GACUUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCAAAU	25663
10502	UUUUGAG G AAAGUCAG	7288	CUGACUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCUCAAA	25664
10510	GAAAGUCA G GCCGGGA	7289	UUUCCGCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGACUUUC	25665
10514	GUCAGGCC G GGAAGUUC	7290	GAAUUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GGCUGAC	25666
10515	UCAGGCCG G GAAGUUC	7291	GAAACUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CGGCCUGA	25667
10516	CAGGCCGG G AAGUUC	7292	GGAACUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCGGCCUG	25668
10531	CCGCCACC G AAGUUGA	7293	UCAAACUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GUGGCGG	25669
10532	CGCACCCG G AAGUUGAG	7294	CUCAAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CGGUGCG	25670
10538	CGGAAGUU G AGUAGACG	7295	CGUCUACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AACUUCCG	25671
10543	GUUGAGUA G ACGGUGCU	7296	AGCACCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UACUCAAC	25672
10546	GAGUAGAC G GUGUGCC	7297	GGCAGCAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GUCUACUC	25673
10558	CUGCCUCG G ACUCAACC	7298	GGUUGAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GCAGGCAG	25674
10570	CAACCCCA G GAGGACUG	7299	CAGUCCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGGGGUUG	25675
10571	AACCCAG G AGGACUGG	7300	CAGUCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUGGGUU	25676
10573	CCCACGAG G GACUGGU	7301	ACCCAGUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCUGGGG	25677
10727	CCCACGAG G GACUGGU	7301	ACCCAGUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCUGGGG	25677
10574	CCGAGGAG G ACUGGGUG	7302	CACCCAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCCUGGG	25678
10578	GGAGGACU G GUGAACA	7303	UGUQACC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGUCCUCC	25679
10579	GAGGACUG G GUGAACAA	7304	UGUUCAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAGUCCUC	25680
10582	GACUGGGU G AACAAAGC	7305	GCUUUGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACCCAGUC	25681
10594	AAAGCCGC G AAGUGAUC	7306	GAUCACUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GCGGCUUU	25682
10599	CGGAAGU G AUCCAUGU	7307	ACAUGGAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACUUCGCG	25683
10617	AGCCUCA G AACCGUCU	7308	AGACGGUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGAGGGCU	25684
10627	ACCGUCUC G GAAGGAGG	7309	CCUCCUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GAGACGGU	25685
10628	CCGUCUCG G AAGGAGGA	7310	UCCUCCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CGAGACGG	25686
10631	UCUCGGAA G GAGGACCC	7311	GGGUCCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCGAGA	25687
10632	CUCCGAG G AGGACCCC	7312	GGGUCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCCGAG	25688
10634	CGGAAGGA G GACCCAC	7313	GUGGGUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCUCCG	25689
10635	GGAAGGAG G ACCCCACA	7314	UUGGGGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCCUCC	25690
10670	CAUUGUA G ACCAGCU	7315	AGCUGGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGACAUUG	25691
10681	CACGCUAC G GCGUGCU	7316	UAGCAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GUAGCGUG	25692
10696	UACUCUC G GAGAGUC	7317	GCACUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GCAGAGUA	25693
10697	ACUCUGC G AGAGUGCA	7318	UGCACUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CGCAGAU	25694
10699	UCUGCGGA G AGUGCAGU	7319	ACUGCACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCGCAGA	25695
10712	CAGUCUC G AUAGUGCC	7320	GGCACAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GCAGACUG	25696
10724	GUGCCCCA G GAGGACUG	7321	CAGUCCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGGGCGAC	25697

Table VII

10725	UGCCCCAG G AGGACUGG	7322	CCAGUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGGGCA	25698
10728	CCCAGGAG G ACUGGGUU	7323	AACCCAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCUGG	25699
10732	GGAGGACU G GGUUAACA	7324	UGUUAAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCCUCC	25700
10733	GAGGACUG G GUUAACAA	7325	UGUUAAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUCCUC	25701
10743	UUAACAAA G GCAACCCA	7326	UGUUUUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUUAA	25702
10763	CCCCAGC G GCCUAGC	7327	GUUAGGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGUGGG	25703
10775	CUAGCCCC G GUAADGGU	7328	ACCAUUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGGCUAG	25704
10781	CCGGUAUU G GUGUUAAC	7329	GUUAACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUACCCG	25705
10792	GUUAACCA G GCGGAAAG	7330	CUUUCGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUUAAC	25706
10793	UUAACCA G GCGAAGG	7331	CCUUCGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGUUAA	25707
10796	ACCAGGGC G AAGGACU	7332	AGUCUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGGUGGU	25708
10800	GGCGGAAA G GACUAGAG	7333	CUUUAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUGCCC	25709
10801	GGCGAAG G ACUAGAGG	7334	CUUUAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUGGCC	25710
10806	AAGGACUA G AGGUUAGA	7335	UCCUUAACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGUCCUU	25711
10808	GGACUAGA G GUUAGAGG	7336	CCUGUAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUAGUCC	25712
10813	AGAGGUUA G AGGAGACC	7337	GGUCUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAACCUUU	25713
10815	AGGUUAGA G GAGACCCC	7338	GGGUCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUAACCU	25714
10816	GGUAGAG G AGACCCCG	7339	CGGGUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUAACC	25715
10818	UUAGAGGA G ACCCCGCG	7340	CGGGGGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUCUAA	25716
10826	GACCCGCG G GUUUAAAG	7341	CUUUAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGGGGUC	25717
10840	AAGUGCAC G GCCCAGCC	7342	GGCUGGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGCACUU	25718
10850	CCCAGCCU G ACUGAAGC	7343	GCUCUAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGCUGGG	25719
10854	GCCUGACU G AAGCUGUA	7344	UACAGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCAGGC	25720
10863	AAGCUGUA G GUCAGGGG	7345	CCCUGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACAGCUU	25721
10868	GUAGGUCA G GGAAGGA	7346	UCCUUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGACCUAC	25722
10869	UAGGUCAG G GGAAGGAC	7347	GUCCUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGACCUA	25723
10870	AGGUCAGG G GAAGGACU	7348	AGUCCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUGACCU	25724
10871	GGUCAGGG G AAGGACUA	7349	UAGUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUGACCU	25725
10874	CAGGGGAA G GACUAGAG	7350	CUUUAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUCCUG	25726
10875	AGGGGAAG G ACUAGAGG	7351	CCUCUAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCCCCU	25727
10880	AAGGACUA G AGGUUAGU	7352	ACUUAACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGUCCUU	25728
10882	GGACUAGA G GUUAGUGG	7353	CCACUAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUAGUCC	25729
10889	AGGUUAGU G GAGACCCC	7354	GGGUCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUAACCU	25730
10890	GGUAGUG G AGACCCCG	7355	CGGGGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUAACC	25731
10892	UAGUGGGA G ACCCCGUG	7356	CAGGGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCACUAA	25732
10931	AGCAUAUU G ACACCUUG	7357	CCAGUAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUAUGCU	25733
10938	UGACACCU G GGAUAGAC	7358	GUUUAUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGUGUCA	25734
10939	GACACUUG G GAUAGACU	7359	AGUCUAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGGUGUC	25735
10940	ACACCUUG G AUAGACUA	7360	UAGUUAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGGUGU	25736
10944	CUGGGAUA G ACUAGGAG	7361	CUCCUAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUCCGAG	25737

Table VII

10949	AUAGACUA G GAGAUUU	7362	AAGAUUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UAGUCUAU	25738
10950	UAGACUAG G AGAUUUU	7363	GAAGAUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CUAGUCUA	25739
10952	GACUAGGA G AUCUUCUG	7364	CAGAAGAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCCUAGUC	25740
10981	AGCCACAC G GCACAGUG	7365	CACUGUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GUGUGGU	25741
10994	AGUGGCC G ACAUUGU	7366	ACCAUUGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCGGCACU	25742
11000	CCGACAAU G GUGGCUUG	7367	CCAGCCAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUUGUCGG	25743
11003	ACAAUGGU G GCUGGUGG	7368	CCACCAGC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACCAUUGU	25744
11007	UGGUGGUU G GUGGUGGG	7369	CGCACCAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGCCACCA	25745
11010	UGGUGGUU G GUGCGAGA	7370	UCUCGCAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACCAGCCA	25746
11015	GGUGGUC G AGACACA	7371	UGUGUUCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCACCACC	25747
11017	UGGUGCGA G AACACAGG	7372	CCUGUGUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCGACCCA	25748

Input Sequence = AF196835. Cut Site = G/.

Arm Length = 8. Core Sequence = GGAGGAAACUCC CU UCAAGGACAUCCGUCCGGG
AF196835 West Nile virus strain NY99-flamingo382-99, complete genome

Table VIII

Table VIII: WNV minus strand Hammerhead Ribozyme and Target Sequence

Pos	Pos (+str)	Substrate	Seq ID	Ribozyme	Rz Seq ID
12	11018	UCCUGUGU U CUCGCACC	7373	GGUGCGAG CUGAUGAG GCCGUUAGGC CGAA ACACAGGA	25749
13	11017	CCUGUGUU C UCGCACCA	7374	UGGUGCGA CUGAUGAG GCCGUUAGGC CGAA AACACAGG	25750
15	11015	UGUGUUCU C GCACCACC	7375	GGUGGUGC CUGAUGAG GCCGUUAGGC CGAA AGAACACA	25751
33	10997	GCCACCAU U GUCGGCGC	7376	GCGCCGAC CUGAUGAG GCCGUUAGGC CGAA AUGGUGGC	25752
36	10994	ACCAUUGU C GGCGCACU	7377	AGUGCGCC CUGAUGAG GCCGUUAGGC CGAA ACA AUGGU	25753
61	10969	UGGUGUGU U GUGCAGAG	7378	CUCUGCAC CUGAUGAG GCCGUUAGGC CGAA ACCAGCCA	25754
78	10952	CAGAAGAU C UCCUAGUC	7379	GACUAGGA CUGAUGAG GCCGUUAGGC CGAA AUCUUCUG	25755
80	10950	GAAGAUCU C CUAGUCUA	7380	UAGACUAG CUGAUGAG GCCGUUAGGC CGAA AGAUCUUC	25756
83	10947	GAUCUCCU A GUCUAUCC	7381	GGAUAGAC CUGAUGAG GCCGUUAGGC CGAA AGGAGAU	25757
86	10944	CUCCUAGU C UAUCCAG	7382	CUGGGAUA CUGAUGAG GCCGUUAGGC CGAA ACUAGGAG	25758
88	10942	CCUAGUCU A UCCCAGGU	7383	ACCUGGGA CUGAUGAG GCCGUUAGGC CGAA AGACUAGG	25759
90	10940	UAGUCUAU C CCAGGUGU	7384	ACACCGUG CUGAUGAG GCCGUUAGGC CGAA AUAGACUA	25760
99	10931	CCAGGUGU C AAUAUGCU	7385	AGCAUAUU CUGAUGAG GCCGUUAGGC CGAA ACACCGUG	25761
103	10927	GUGUCAAU A UGUGUUU	7386	AAACAGCA CUGAUGAG GCCGUUAGGC CGAA AUUGACAC	25762
110	10920	UAUGCUGU U UUGUUGUG	7387	CACAACA CUGAUGAG GCCGUUAGGC CGAA ACAGCAUA	25763
111	10919	AUGCUGUU U UGUUGUGG	7388	CCACAACA CUGAUGAG GCCGUUAGGC CGAA AGAGCAU	25764
112	10918	UGCUGUUU U GUUGUGGU	7389	ACCACAAC CUGAUGAG GCCGUUAGGC CGAA AAACAGCA	25765
115	10915	UGUUUUGU U GUGGUGUU	7390	AACACCAC CUGAUGAG GCCGUUAGGC CGAA ACAAAACA	25766
123	10907	UGUGGUGU U UUGUGGCA	7391	UGCCACA CUGAUGAG GCCGUUAGGC CGAA ACACCACA	25767
124	10906	GUGGUGUU U UGUGGCAC	7392	GUGCCACA CUGAUGAG GCCGUUAGGC CGAA AACACCAC	25768
125	10905	UGGUGUUU U GUGGCACG	7393	CGUGCCAC CUGAUGAG GCCGUUAGGC CGAA AAACACCA	25769
138	10892	CACGGGGU C UCCACUAA	7394	UUAGUGGA CUGAUGAG GCCGUUAGGC CGAA ACCCCGUG	25770
140	10890	CGGGGUCU C CACUAACC	7395	GGUAGUG CUGAUGAG GCCGUUAGGC CGAA AGACCCCG	25771
145	10885	UCUCCACU A ACCUCUAG	7396	CUAGAGGU CUGAUGAG GCCGUUAGGC CGAA AGUGGAGA	25772
150	10880	ACUAACCU C UAGUCCUU	7397	AAGGACUA CUGAUGAG GCCGUUAGGC CGAA AGGUUAGU	25773
152	10878	UAACCUCU A GUCCUUC	7398	GGAAGGAC CUGAUGAG GCCGUUAGGC CGAA AGAGGUUA	25774
155	10875	CCUCUAGU C CUUCCCCU	7399	AGGGGAAG CUGAUGAG GCCGUUAGGC CGAA ACUAGAGG	25775
158	10872	CUAGUCCU U CCCUGAC	7400	GUCAGGGG CUGAUGAG GCCGUUAGGC CGAA AGGACUAG	25776
159	10871	UAGUCCUU C CCCUGACC	7401	GGUCAGGG CUGAUGAG GCCGUUAGGC CGAA AAGGACUA	25777
169	10861	CCUGACCU A CAGCUUCA	7402	UGAAGCUG CUGAUGAG GCCGUUAGGC CGAA AGGUCAGG	25778
175	10855	CUACAGCU U CAGUCAGG	7403	CCUGACUG CUGAUGAG GCCGUUAGGC CGAA AGCUGUAG	25779
176	10854	UACAGCUU C AGUCAGGC	7404	CCUAGACU CUGAUGAG GCCGUUAGGC CGAA AAGCUGUA	25780
180	10850	GCUUCAGU C AGGCUGGG	7405	CCCAGCCU CUGAUGAG GCCGUUAGGC CGAA ACUGAAGC	25781
198	10832	CGUGCACU U UAAACCGC	7406	GCGGUTUA CUGAUGAG GCCGUUAGGC CGAA AGUGCACG	25782
199	10831	GUGCACUU U AAACCGCG	7407	CGCGGUTU CUGAUGAG GCCGUUAGGC CGAA AAGUCAC	25783
200	10830	UGCACUUU A AACCGCGG	7408	CCGCGGUT CUGAUGAG GCCGUUAGGC CGAA AAAGUGCA	25784
212	10818	CGCGGGGU C UCCUCUAA	7409	UUAGAGGA CUGAUGAG GCCGUUAGGC CGAA ACCCCGCG	25785
214	10816	CGGGGUCU C CUCUAACC	7410	GGUAGAG CUGAUGAG GCCGUUAGGC CGAA AGACCCCG	25786
217	10813	GUUCUCCU C UAACCUUC	7411	AGAGGUUA CUGAUGAG GCCGUUAGGC CGAA AGGAGACC	25787
219	10811	UCUCCUCU A ACCUCUAG	7412	CUAGAGGU CUGAUGAG GCCGUUAGGC CGAA AGGAGAGA	25788
224	10806	UCUAACCU C UAGUCCUU	7413	AAGGACUA CUGAUGAG GCCGUUAGGC CGAA AGGUUAGA	25789
226	10804	UAACCUCU A GUCCUUC	7414	GAAAGGAC CUGAUGAG GCCGUUAGGC CGAA AGAGGUUA	25790
229	10801	CCUCUAGU C CUUUCGCC	7415	GGCGAAAG CUGAUGAG GCCGUUAGGC CGAA ACUAGAGG	25791
232	10798	CUAGUCCU U UCGCCUG	7416	CAGGGCGA CUGAUGAG GCCGUUAGGC CGAA AGGACUAG	25792
233	10797	UAGUCCUU U CGCCUGG	7417	CCAGGGCG CUGAUGAG GCCGUUAGGC CGAA AAGGACUA	25793
234	10796	AGUCCUUU C GCCUGGU	7418	ACCAGGGC CUGAUGAG GCCGUUAGGC CGAA AAAGGACU	25794
243	10787	GCCUGGUU A AACACCAU	7419	AUGGUGUU CUGAUGAG GCCGUUAGGC CGAA ACCAGGGC	25795
244	10786	CCUGGUTU A ACACCAU	7420	AAUGGUGU CUGAUGAG GCCGUUAGGC CGAA AACAGGGG	25796
252	10778	AACACCAU U ACCGGGGC	7421	GCCCCGGU CUGAUGAG GCCGUUAGGC CGAA AUGGUGUU	25797
253	10777	ACACCAU A CCGGGGCU	7422	AGCCCCGG CUGAUGAG GCCGUUAGGC CGAA AAUGGUGU	25798
262	10768	CCGGGGCU A GGGCCGCG	7423	CGCGGCC CUGAUGAG GCCGUUAGGC CGAA AGCCCCGG	25799
279	10751	UGGGGCGU U GGUUGCC	7424	GGCAAACC CUGAUGAG GCCGUUAGGC CGAA ACGCCCCA	25800
283	10747	GCGUUGGU U UGCCUUG	7425	CAAAGGCA CUGAUGAG GCCGUUAGGC CGAA ACCAACGC	25801
284	10746	CGUUGGUU U GCCUUGU	7426	ACAAAGGC CUGAUGAG GCCGUUAGGC CGAA AACCAACG	25802
289	10741	GUUUGCCU U UGUUAACC	7427	GGUUAACA CUGAUGAG GCCGUUAGGC CGAA AGGCAAAC	25803
290	10740	UUUGCCUU U GUUAACCC	7428	GGGUUAAC CUGAUGAG GCCGUUAGGC CGAA AAGGCAAA	25804
293	10737	GCCUUGU U AACCCAGU	7429	ACUGGGUU CUGAUGAG GCCGUUAGGC CGAA ACAAGGC	25805

Table VIII

294	10736	CCUUGU A ACCCAGUC	7430	GACUGGGU CUGAUGAG	GCCGUUAGGC	CGAA AACAAAGG	25806
302	10728	AACCCAGU C CUCCUGGG	7431	CCCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGGGUU	25807
305	10725	CCAGUCCU C CUGGGGCA	7432	UGCCCCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGACUGG	25808
316	10714	GGGGCACU A UCGCAGAC	7433	GUCUGCGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGCCCC	25809
318	10712	GGCACUAU C GCAGACUG	7434	CAGUCUGC CUGAUGAG	GCCGUUAGGC	CGAA AUAGUGCC	25810
331	10699	ACUGCACTU C UCCGCAGA	7435	UCUGCGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGCAGU	25811
333	10697	UGCACUCU C CGCAGAGU	7436	ACUCUGCG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGCA	25812
342	10688	CGCAGAGU A GCACGCCG	7437	CGGCGUGC CUGAUGAG	GCCGUUAGGC	CGAA ACUCUGCG	25813
352	10678	CACGCCGU A GCGUGGUC	7438	GACCACGC CUGAUGAG	GCCGUUAGGC	CGAA ACGCGUG	25814
360	10670	AGCGUGGU C UGACAUUG	7439	CAAUGUCA CUGAUGAG	GCCGUUAGGC	CGAA ACCACGCU	25815
367	10663	UCUGACAU U GGGCUUUG	7440	CAAAGCCC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCAGA	25816
373	10657	AUUGGGCU U UGAAGUUA	7441	UAACUUA CUGAUGAG	GCCGUUAGGC	CGAA AGCCCAAU	25817
374	10656	UUGGGCUU U GAAGUUA	7442	GUAAUUC CUGAUGAG	GCCGUUAGGC	CGAA AAGCCCAA	25818
380	10650	UUUGAAGU U ACAACAUG	7443	CAUGUUGU CUGAUGAG	GCCGUUAGGC	CGAA ACUCAA	25819
381	10649	UGAAGUU A CAACAUGU	7444	ACAUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AACUCAA	25820
395	10635	UGUGGGGU C CUCCUUC	7445	GGAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACCCCACA	25821
398	10632	GGGGUCCU C CUUCCGAG	7446	UCUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AGGACCCC	25822
401	10629	GUCUCCU U CCGAGACG	7447	CGUCUCGG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGAC	25823
402	10628	UCCUCCU C CGAGACGG	7448	CCGUCUCG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGGA	25824
412	10618	GAGACGGU U CUGAGGGC	7449	GCCCUCAG CUGAUGAG	GCCGUUAGGC	CGAA ACCGUCUC	25825
413	10617	AGACGGU C UGAGGGCU	7450	AGCCUCA CUGAUGAG	GCCGUUAGGC	CGAA AACCUCU	25826
422	10608	UGAGGGCU U ACAUGGAU	7451	AUCCAUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCCUCA	25827
423	10607	GAGGGCU A CAUGGAUC	7452	GAUCCAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGCCUC	25828
431	10599	ACAUGGAU C ACUUCGCG	7453	CGCGAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUCCAUGU	25829
435	10595	GGAUCACU U CGCGGCU	7454	AAGCCGCG CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUCC	25830
436	10594	GAUCACU C GCGGCUU	7455	AAAGCCGC CUGAUGAG	GCCGUUAGGC	CGAA AAGUGAUC	25831
443	10587	UCGCGGCU U UGUUACCC	7456	GGUGAACA CUGAUGAG	GCCGUUAGGC	CGAA AGCCCGCA	25832
444	10586	CGCGGCU U GUUACCC	7457	GGGUGAAC CUGAUGAG	GCCGUUAGGC	CGAA AAGCCGCG	25833
447	10583	GGCUUUGU U CACCCAGU	7458	ACUGGGUG CUGAUGAG	GCCGUUAGGC	CGAA ACAAGGCC	25834
448	10582	GCUUUGU C ACCCAGUC	7459	GACUGGGU CUGAUGAG	GCCGUUAGGC	CGAA AACAAAGC	25835
456	10574	CACCCAGU C CUCCUGGG	7460	CCCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGGGUG	25836
459	10571	CCAGUCCU C CUGGGGU	7461	AACCCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGACUGG	25837
467	10563	CCUGGGGU U GAGUCGCA	7462	UGCGACUC CUGAUGAG	GCCGUUAGGC	CGAA ACCCCAGG	25838
472	10558	GGUUGAGU C GCAGGCAG	7463	CUGCCUGC CUGAUGAG	GCCGUUAGGC	CGAA ACUCAACC	25839
487	10543	AGCACCGU C UACUCAAC	7464	GUUGAGUA CUGAUGAG	GCCGUUAGGC	CGAA ACGGUGCU	25840
489	10541	CACCGUCU A CUCAACU	7465	AAGUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AGACGGUG	25841
492	10538	CGUCUACU C AACUCCG	7466	CGGAAGUU CUGAUGAG	GCCGUUAGGC	CGAA AGUAGACG	25842
497	10533	ACUCAACU U CCGUGGC	7467	GCCACCG CUGAUGAG	GCCGUUAGGC	CGAA AGUUGAGU	25843
498	10532	CUCAACU C CGUGGCG	7468	AGCCACCG CUGAUGAG	GCCGUUAGGC	CGAA AAGUUGAG	25844
513	10517	CGGGAACU U CCCGGCCU	7469	AGGCCGGG CUGAUGAG	GCCGUUAGGC	CGAA AGUUCGCC	25845
514	10516	GGGAACU C CCGGCCUG	7470	CAGGCCGG CUGAUGAG	GCCGUUAGGC	CGAA AAGUUCGC	25846
526	10504	GCCUGACU U UCUCUCA	7471	UGAGGAGA CUGAUGAG	GCCGUUAGGC	CGAA AGUCAGGC	25847
527	10503	CCUGACU U CUCCUCA	7472	UUGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAGG	25848
528	10502	CUGACUU C UCCUCAA	7473	UUUGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAAGUCAG	25849
530	10500	GACUUUCU C CUCAAAU	7474	AUUUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGUC	25850
533	10497	UUUCUCCU C AAAAUUU	7475	AAAAUUU CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAAA	25851
539	10491	CUCAAAU U UUCUAAAC	7476	GUUAAGAA CUGAUGAG	GCCGUUAGGC	CGAA AUUUGAG	25852
540	10490	UCAAAAU U UCUAACU	7477	AGUUAAGA CUGAUGAG	GCCGUUAGGC	CGAA AAUUUGA	25853
541	10489	CAAAAUU U CUUAACUA	7478	UAGUUAAG CUGAUGAG	GCCGUUAGGC	CGAA AAUUUUG	25854
542	10488	AAAAUUU C UUAACUAU	7479	AUAGUUA CUGAUGAG	GCCGUUAGGC	CGAA AAAAUUU	25855
544	10486	AAUUUCU U AACUAUU	7480	AAAUAGU CUGAUGAG	GCCGUUAGGC	CGAA AGAAAAU	25856
545	10485	AUUUUCU A ACUAUUUA	7481	UAAUAGU CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAAU	25857
549	10481	UCUUAACU A UUUACACU	7482	AGUGUAA CUGAUGAG	GCCGUUAGGC	CGAA AGUUAAGA	25858
551	10479	UUAACUAU U UACUAUA	7483	UUAGUGUA CUGAUGAG	GCCGUUAGGC	CGAA AUAGUUA	25859
552	10478	UAACUAU U ACACUAAC	7484	GUUAGUGU CUGAUGAG	GCCGUUAGGC	CGAA AAUAGUUA	25860
553	10477	AACUAUU A CACUAACA	7485	UGUUAUG CUGAUGAG	GCCGUUAGGC	CGAA AAUAGUU	25861
558	10472	UUUACACU A ACACCACU	7486	AGUGGUGU CUGAUGAG	GCCGUUAGGC	CGAA AGUGUAAA	25862
567	10463	ACACCACU A AAUACUAC	7487	GUAGUAU CUGAUGAG	GCCGUUAGGC	CGAA AGUGGUGU	25863
571	10459	CACUAAU A CUACUAUA	7488	UAUAGUAG CUGAUGAG	GCCGUUAGGC	CGAA AUUAGUG	25864
574	10456	UAAUACU A CUUAAAA	7489	UUUUAUAG CUGAUGAG	GCCGUUAGGC	CGAA AGUUAUUA	25865
577	10453	AUACUACU A UAAACUA	7490	UAGUUUA CUGAUGAG	GCCGUUAGGC	CGAA AGUAGUAU	25866
579	10451	ACUACUAU A AAACUACA	7491	UGUAGUUU CUGAUGAG	GCCGUUAGGC	CGAA AUAGUAGU	25867

Table VIII

585	10445	AUAAAACU A CACUUUA	7492	UAAAAGUG CUGAUGAG	GCCGUUAGGC	CGAA	AGUUUUAU	25868
590	10440	ACUACACU U UUAUGCAU	7493	AUGCAUAA CUGAUGAG	GCCGUUAGGC	CGAA	AGUGUAGU	25869
591	10439	CUACACUU U UAUUGCAU	7494	UAUGCAUA CUGAUGAG	GCCGUUAGGC	CGAA	AAGUGUAG	25870
592	10438	UACACUUU U AUGCAUAC	7495	GUAUGCAU CUGAUGAG	GCCGUUAGGC	CGAA	AAAGUGUA	25871
593	10437	ACACUUUU A UGCAUACU	7496	AGUAUGCA CUGAUGAG	GCCGUUAGGC	CGAA	AAAAGUGU	25872
599	10431	UUAUGCAU A CUUAUAUU	7497	AAUAUAAG CUGAUGAG	GCCGUUAGGC	CGAA	AUGCAUAA	25873
602	10428	UGCAUACU U AUAUUGUC	7498	GACAAUAU CUGAUGAG	GCCGUUAGGC	CGAA	AGUAUGCA	25874
603	10427	GCAUACUU A UAUUGUCU	7499	AGACAAUA CUGAUGAG	GCCGUUAGGC	CGAA	AAGUAUGC	25875
605	10425	AUACUUUA A UUGUCUAU	7500	AUAGACAA CUGAUGAG	GCCGUUAGGC	CGAA	AUAAGUAU	25876
607	10423	ACUUAUAU U GUCUAUUU	7501	AAAUAAGC CUGAUGAG	GCCGUUAGGC	CGAA	AUAUAAGU	25877
610	10420	UAUAUUGU C UAUUUAUA	7502	UGUAAUAU CUGAUGAG	GCCGUUAGGC	CGAA	ACAAUAUA	25878
612	10418	UAUUGUCU A UUUACAAU	7503	AUUGUAAA CUGAUGAG	GCCGUUAGGC	CGAA	AGACAAUA	25879
614	10416	UUGUCUAU U UACAAUUG	7504	CAAUUGUA CUGAUGAG	GCCGUUAGGC	CGAA	AUAGACAA	25880
615	10415	UGUCUAUU U ACAAUUGA	7505	UCAUUGU CUGAUGAG	GCCGUUAGGC	CGAA	AAUAGACA	25881
616	10414	GUCUAUUU A CAAUUGAU	7506	AUCAAUUG CUGAUGAG	GCCGUUAGGC	CGAA	AAAUAGAC	25882
621	10409	UUUACAAU U GAUUAUUU	7507	AUUUAUUC CUGAUGAG	GCCGUUAGGC	CGAA	AUUGUAAA	25883
625	10405	CAAUUGAU U AAUAUUCU	7508	AGAUAUUU CUGAUGAG	GCCGUUAGGC	CGAA	AUCAAUUG	25884
626	10404	AAUUGAUU A AAUAUCUA	7509	UAGAUUUU CUGAUGAG	GCCGUUAGGC	CGAA	AAUCAAUU	25885
630	10400	GAUUAUUU A UCUACAGU	7510	ACUGUAGA CUGAUGAG	GCCGUUAGGC	CGAA	AUUUAUUC	25886
632	10398	UUAAUAU C UACAGUAC	7511	GUACUGUA CUGAUGAG	GCCGUUAGGC	CGAA	AUAUUUAA	25887
634	10396	AAUAUUCU A CAGUACUG	7512	CAGUACUG CUGAUGAG	GCCGUUAGGC	CGAA	AGAUUUUU	25888
639	10391	UCUACAGU A CUGUGUCC	7513	GGACACAG CUGAUGAG	GCCGUUAGGC	CGAA	ACUGUAGA	25889
646	10384	UACUGUGU C CUCAACCA	7514	UGGUUGAG CUGAUGAG	GCCGUUAGGC	CGAA	ACACAGUA	25890
649	10381	UGUGUCCU C AACCAAAG	7515	CUUUGGUU CUGAUGAG	GCCGUUAGGC	CGAA	AGACACAA	25891
659	10371	ACCAAAGU U GUGUCUUC	7516	GAAGACAC CUGAUGAG	GCCGUUAGGC	CGAA	ACUUUGGU	25892
664	10366	AGUUGUGU C UUCAUAUC	7517	GAUAUGAA CUGAUGAG	GCCGUUAGGC	CGAA	ACACAACU	25893
666	10364	UUGUGUCU U CAUAUCUC	7518	GAGAUAUG CUGAUGAG	GCCGUUAGGC	CGAA	AGACACAA	25894
667	10363	UGUGUCUU C AUAUCUCU	7519	AGAGUAUU CUGAUGAG	GCCGUUAGGC	CGAA	AAGACACA	25895
670	10360	GUCUUAU A UCUCUUUA	7520	UAAAGAGA CUGAUGAG	GCCGUUAGGC	CGAA	AUGAAGAC	25896
672	10358	CUUCAUAU C UCUUUAGU	7521	ACUAAAGA CUGAUGAG	GCCGUUAGGC	CGAA	AUAUGAAG	25897
674	10356	UCAUAUCU C UUUAGUGA	7522	UCACUAAA CUGAUGAG	GCCGUUAGGC	CGAA	AGAUAUGA	25898
676	10354	AUAUCUCU U UAGUGAAC	7523	GUUCACUA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGUAUU	25899
677	10353	UAUCUCUU U AGUGAACU	7524	AGUUCACU CUGAUGAG	GCCGUUAGGC	CGAA	AAGAGUAU	25900
678	10352	AUCUCUUU A GUGAACUC	7525	GAGUUCAC CUGAUGAG	GCCGUUAGGC	CGAA	AAAGAGAU	25901
686	10344	AGUGAACU C AUGUAAUC	7526	GAUUACAU CUGAUGAG	GCCGUUAGGC	CGAA	AGUUCACU	25902
691	10339	ACUCAUGU A AUCCACAU	7527	AUGUGGAU CUGAUGAG	GCCGUUAGGC	CGAA	ACAUGAGU	25903
694	10336	CAUGUAUU C CACAUACU	7528	AGUAUGUG CUGAUGAG	GCCGUUAGGC	CGAA	AUUACAUG	25904
700	10330	AUCCACAU A CUUCUCAU	7529	AUGAGAAG CUGAUGAG	GCCGUUAGGC	CGAA	AUGUGGAU	25905
703	10327	CAUAUCU U CUCAUCUC	7530	GAGAUGAG CUGAUGAG	GCCGUUAGGC	CGAA	AGUAUGUG	25906
704	10326	ACAUAUUU C UCAUCUCC	7531	GGAGAUGA CUGAUGAG	GCCGUUAGGC	CGAA	AGUAUGU	25907
706	10324	AUACUUU C AUCUCCGA	7532	UCGGAGAU CUGAUGAG	GCCGUUAGGC	CGAA	AGAAGUAU	25908
709	10321	CUUCUCAU C UCCGAUGA	7533	UCAUCGGA CUGAUGAG	GCCGUUAGGC	CGAA	AUGAGAAG	25909
711	10319	UCUCAUCU C CGAUGAUU	7534	AAUCAUCG CUGAUGAG	GCCGUUAGGC	CGAA	AGAUGAGA	25910
719	10311	CCGAUGAU U GCUCUGAC	7535	GUCAGAGC CUGAUGAG	GCCGUUAGGC	CGAA	AUCAUCGG	25911
723	10307	UGAUUGCU C UGACUUGG	7536	CCAAGUCA CUGAUGAG	GCCGUUAGGC	CGAA	AGCAAUCA	25912
729	10301	CUUCUGACU U GGUUGAUA	7537	UAUCAACC CUGAUGAG	GCCGUUAGGC	CGAA	AGUCAGAG	25913
733	10297	GACUUGGU U GAUAGCCA	7538	UGGCUAUC CUGAUGAG	GCCGUUAGGC	CGAA	ACCAAGUC	25914
737	10293	UGGUUGAU A GCCACCG	7539	CAGGUGGC CUGAUGAG	GCCGUUAGGC	CGAA	AUCAACCA	25915
751	10279	CUGGAUGU U UUCUGCCC	7540	GGGCAGAA CUGAUGAG	GCCGUUAGGC	CGAA	ACAUCACG	25916
752	10278	UGGAUGUU U UCUGCCCA	7541	UGGGCAGA CUGAUGAG	GCCGUUAGGC	CGAA	AACAUCCA	25917
753	10277	GGAUGUUU U CUGCCAC	7542	GUGGGCAG CUGAUGAG	GCCGUUAGGC	CGAA	AAACAUC	25918
754	10276	GAUGUUUU C UGCCCACG	7543	CGUGGCA CUGAUGAG	GCCGUUAGGC	CGAA	AAAACAUC	25919
768	10262	ACGUGGCU C GGGCUCUU	7544	AAGAGCCC CUGAUGAG	GCCGUUAGGC	CGAA	AGCCACGU	25920
774	10256	CUCGGGCU C UUGUGCCA	7545	UGGCACAA CUGAUGAG	GCCGUUAGGC	CGAA	AGCCCGAG	25921
776	10254	CGGGCUCU U GUGCCAAU	7546	AUUGGCAC CUGAUGAG	GCCGUUAGGC	CGAA	AGAGCCG	25922
785	10245	GUGCCAAU C AGGCUGCC	7547	GGCAGCCU CUGAUGAG	GCCGUUAGGC	CGAA	AUUGCCAC	25923
805	10225	CCAGAUGU C CUCUCGUU	7548	AACGAGAG CUGAUGAG	GCCGUUAGGC	CGAA	ACAUCUGG	25924
808	10222	GAUGUCCU C UCUGUUUC	7549	GAAAACGA CUGAUGAG	GCCGUUAGGC	CGAA	AGGACAUC	25925
810	10220	UGUCCUCU C GUUUUCCU	7550	AGGAAAC CUGAUGAG	GCCGUUAGGC	CGAA	AGAGGACA	25926
813	10217	CCUCUCGU U UUCUGAA	7551	UUCAGGAA CUGAUGAG	GCCGUUAGGC	CGAA	ACGAGAGG	25927
814	10216	CUCUCGUU U UCCUGAAU	7552	AUUCAGGA CUGAUGAG	GCCGUUAGGC	CGAA	AACGAGAG	25928
815	10215	UCUCGUUU U CCUGAAUA	7553	UAUUCAGG CUGAUGAG	GCCGUUAGGC	CGAA	AAACGAGA	25929

Table VIII

816	10214	CUCGUUUU C CUGAAUUAU	7554	AUAUUCAG CUGAUGAG	GCCGUUAGGC	CGAA AAAACGAG	25930
823	10207	UCCUGAAU A UGGGACGU	7555	ACGUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AUUCAGGA	25931
832	10198	UGGGACGU C ACUCCAUAU	7556	AAUGGAGU CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCCA	25932
836	10194	ACGUACAU C CAUUCUC	7557	GAGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGACGU	25933
840	10190	CACUCCA U UCUCACU	7558	AGUGGAGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGUG	25934
841	10189	ACUCCA U UCUCACU	7559	CAGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAUGGAGU	25935
842	10188	CUCCA U UCUCACU	7560	CCAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA AAAUGGAG	25936
844	10186	CCAUUCU C CACUGGG	7561	CCCCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUUGG	25937
854	10176	ACUGGGU U UUGUCUUC	7562	GAAGACAA CUGAUGAG	GCCGUUAGGC	CGAA ACCCCAGU	25938
855	10175	CUGGGGU U UUGUCUUC	7563	GGAAGACA CUGAUGAG	GCCGUUAGGC	CGAA AACCCAG	25939
856	10174	UGGGGU U GUCUCCA	7564	UGGAAGAC CUGAUGAG	GCCGUUAGGC	CGAA AAACCCCA	25940
859	10171	GGUUGU C UUCAUCC	7565	GGAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA ACAAAACC	25941
861	10169	UUUGUCU U CCAUCCA	7566	AUGGAUGG CUGAUGAG	GCCGUUAGGC	CGAA AGACAAA	25942
862	10168	UUUGUCU C CAUCCA	7567	AAUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGACAAA	25943
866	10164	UCUCCA C CAUCCA	7568	AAUGAAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAGA	25944
870	10160	CCAUCCA U CAUCCUCC	7569	GGAGAAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUGG	25945
871	10159	CAUCCA C AUUCUCCU	7570	AGGAGAAU CUGAUGAG	GCCGUUAGGC	CGAA AAUGGAUG	25946
874	10156	CCAUCU C CUCCUCUA	7571	UAGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AUGAAUGG	25947
875	10155	CAUCCA C UCCUCUAU	7572	AUAGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAUGAAUG	25948
877	10153	UUCAUUCU C CUCUUAUCC	7573	GGAUAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUGAA	25949
880	10150	AUUCUCCU C UAUCCAA	7574	UUUGGAUA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAAU	25950
882	10148	UCUCCU C UAUCCAA	7575	UGUUGGA CUGAUGAG	GCCGUUAGGC	CGAA AUGAGAGA	25951
884	10146	UCCCUAU C CAACACG	7576	CGUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AUAGAGGA	25952
895	10135	AACACGU U CCAGACCU	7577	AGGUCUGG CUGAUGAG	GCCGUUAGGC	CGAA ACCGUGU	25953
896	10134	ACACGU C CAGACCU	7578	GAGGUCUG CUGAUGAG	GCCGUUAGGC	CGAA AACCGUGU	25954
904	10126	CCAGACCU C CAACAUGU	7579	ACAUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGUCUGG	25955
913	10117	CAACAUGU C CUCUGUUG	7580	CAACAGAG CUGAUGAG	GCCGUUAGGC	CGAA ACAUGUUG	25956
916	10114	CAUGUCCU C UGUUGUA	7581	UGACAACA CUGAUGAG	GCCGUUAGGC	CGAA AGGACAUG	25957
920	10110	UCCUCUGU U GUCAUCCA	7582	UGGAUGAC CUGAUGAG	GCCGUUAGGC	CGAA ACAGAGGA	25958
923	10107	UCUGUUGU C AUCCACUC	7583	GAGUGGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAACAGA	25959
926	10104	GUUGUCAU C CACUCUCC	7584	GGAGAGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGACAAC	25960
931	10099	CAUCCAU C UCCUCCUG	7585	CAGGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAUG	25961
933	10097	UCCACUCU C CUCCUGCA	7586	UGCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGGA	25962
936	10094	ACUCUCCU C CUGCAUGG	7587	CCAUGCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAGU	25963
959	10071	CACGUGGU U CUUCCGGU	7588	ACCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACCACGUG	25964
960	10070	ACGUGGUU C UUCCGGUA	7589	UACCGGAA CUGAUGAG	GCCGUUAGGC	CGAA AACACGUG	25965
962	10068	GUGGUUCU U CCGGUAGG	7590	CCUACCG CUGAUGAG	GCCGUUAGGC	CGAA AGAACAC	25966
963	10067	UGGUUCU C CGGUAGGG	7591	CCUACCG CUGAUGAG	GCCGUUAGGC	CGAA AGAACAC	25967
968	10062	CUUCCGU A GGGACCA	7592	UGGUUCC CUGAUGAG	GCCGUUAGGC	CGAA ACCGGAAG	25968
979	10051	GACCCAAU U CACAGGA	7593	UCCUUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGGGUC	25969
980	10050	ACCCAAU C ACAGGGAC	7594	GUCCUGU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGGU	25970
1006	10024	AAUGGCGU U GGCCAUGA	7595	UCAUGGCC CUGAUGAG	GCCGUUAGGC	CGAA ACGCAU	25971
1024	10006	CCGACGU C UCUCUGU	7596	ACAGAAGA CUGAUGAG	GCCGUUAGGC	CGAA ACCUGCGG	25972
1026	10004	GCAGGUCU C UCUCUGG	7597	CCACAGAA CUGAUGAG	GCCGUUAGGC	CGAA AGACUGG	25973
1028	10002	AGGUCUCU U CUGUGGA	7598	UUCACAG CUGAUGAG	GCCGUUAGGC	CGAA AGAGACCU	25974
1029	10001	GGUCUCU C UGUGGAAG	7599	CUUCCACA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGACC	25975
1039	9991	GUGGAAGU A CAGAAGCA	7600	UGCUCUG CUGAUGAG	GCCGUUAGGC	CGAA ACUUCAC	25976
1055	9975	AGCCACAU C UGGCAUA	7601	UAUGCCA CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGU	25977
1063	9967	CUGGGCAU A AGACUAG	7602	CUAAGUCU CUGAUGAG	GCCGUUAGGC	CGAA AUGCCAG	25978
1069	9961	AUAAGACU U AGCCAGAC	7603	GUCUGGCU CUGAUGAG	GCCGUUAGGC	CGAA AGUCUUAU	25979
1070	9960	UAAGACU A GCCAGACA	7604	UGUCUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCUA	25980
1087	9943	AGCAGUGU C GCGGACGU	7605	ACGUCCGC CUGAUGAG	GCCGUUAGGC	CGAA ACACUGCU	25981
1096	9934	GCGGACGU U CCAUCCGG	7606	CCGGAUG CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCGC	25982
1097	9933	CGGACGU C CAUCCGGC	7607	GCCGGAUG CUGAUGAG	GCCGUUAGGC	CGAA AACGUCCG	25983
1101	9929	CGUCCA C CGGCCCU	7608	AGGGGCG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAACG	25984
1116	9914	CUGGAGAU A UGCGAGCU	7609	AGCUCGCA CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCAG	25985
1125	9905	UGCGAGCU C UGCCUACC	7610	GGUAGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGCUCGCA	25986
1131	9899	CUCUGCCU A CCAAUUCA	7611	UGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGCAGAG	25987
1137	9893	CUACCAU U CAUCCUGU	7612	ACAGGAUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGGUAG	25988
1138	9892	UACCAU C AUCCUGUC	7613	GACAGGAU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGUA	25989
1141	9889	CAAUCAU C CUGUCCUC	7614	GAGGACAG CUGAUGAG	GCCGUUAGGC	CGAA AUGAAUUG	25990
1146	9884	CAUCCUGU C CUCGGCAU	7615	AUGCCGAG CUGAUGAG	GCCGUUAGGC	CGAA ACAGGAUG	25991

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1149	9881	CCUGUCCU C GGCAUGGA	7616	UCCAUGCC CUGAUGAG	GCCGUUAGGC	CGAA AGGACAGG	25992
1169	9861	ACCAGUGU U CUUCCAUC	7617	GAUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACACUGGU	25993
1170	9860	CCAGUGUU C UUCAUCU	7618	AGAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AACACUGG	25994
1172	9858	AGUGUUCU U CCAUCUUU	7619	AAAGAUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAACACU	25995
1173	9857	GUGUUCUU C CAUCUUUC	7620	GAAAGAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAACAC	25996
1177	9853	UCUUCCAU C UUUCAUGA	7621	UCAUGAAA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAGA	25997
1179	9851	UUCCAUCU U UCAUGAUC	7622	GAUCAUGA CUGAUGAG	GCCGUUAGGC	CGAA AGAUGGAA	25998
1180	9850	UCCAUCUU U CAUGAUCA	7623	UGAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGGA	25999
1181	9849	CCAUCUUU C AUGAUCAA	7624	UUGAUCAU CUGAUGAG	GCCGUUAGGC	CGAA AAAGAUGG	26000
1187	9843	UUCAUGAU C AAUUCAGU	7625	ACUGAAAU CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGAA	26001
1191	9839	UGAUCAAU U CAGUGAAA	7626	UUUCACUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGAUCA	26002
1192	9838	GAUCAAUU C AGUGAAAU	7627	AUUUCACU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGAUC	26003
1204	9826	GAAUUGGU U UGAGCAAA	7628	UUUGCUCA CUGAUGAG	GCCGUUAGGC	CGAA ACCAUUUC	26004
1205	9825	AAUUGGUU U GAGCAAAA	7629	UUUUGCUC CUGAUGAG	GCCGUUAGGC	CGAA AACCAUUT	26005
1231	9799	CUGCCAAU C AUACCAUC	7630	GAUGGUAU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGCAG	26006
1234	9796	CCAUCUUA A CCAUCCAG	7631	CUGGACUG CUGAUGAG	GCCGUUAGGC	CGAA AUGAUUGG	26007
1239	9791	CAUACCAU C CAGUUGAC	7632	GUCAACUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGUUUG	26008
1244	9786	CAUCCAGU U GACGGUUU	7633	AAACCGUC CUGAUGAG	GCCGUUAGGC	CGAA ACUGGAUG	26009
1251	9779	UUGACGGU U UCCACUCU	7634	AGAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA ACCGUCAA	26010
1252	9778	UGACGGUU U CCACUCUU	7635	AAGAGUGG CUGAUGAG	GCCGUUAGGC	CGAA AACCGUCA	26011
1253	9777	GACGGUUU C CACUCUUG	7636	CAAGAGUG CUGAUGAG	GCCGUUAGGC	CGAA AAACCGUC	26012
1258	9772	UUUCCACU C UUGGAUGU	7637	ACAUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAAA	26013
1260	9770	UCCACUCU U GGAUGUCU	7638	AGACAUCC CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGGA	26014
1267	9763	UUGGAUGU C UUUGCGAA	7639	UUUGCAAA CUGAUGAG	GCCGUUAGGC	CGAA ACAUCCAA	26015
1269	9761	GGAUGUCU U UGCGAACC	7640	GGUUCGCA CUGAUGAG	GCCGUUAGGC	CGAA AGACAUCU	26016
1270	9760	GAUGUCUU U GCGAACCU	7641	AGGUUCGC CUGAUGAG	GCCGUUAGGC	CGAA AAGACAUC	26017
1279	9751	GCGAACCU U UGACAUAG	7642	CUAUGUCA CUGAUGAG	GCCGUUAGGC	CGAA AGGUUCGC	26018
1280	9750	CGAACCUC U GACAUAGC	7643	GCUAUGUC CUGAUGAG	GCCGUUAGGC	CGAA AAGGUUCG	26019
1286	9744	UUUGACAU A GCAUUGAG	7644	CUCAAUGC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCAAA	26020
1291	9739	CAUAGCAU U GAGGAAGU	7645	ACUUCUCU CUGAUGAG	GCCGUUAGGC	CGAA AUGCUAUG	26021
1321	9709	AAAGCGAU C GUCCAGGG	7646	CCCUUGGAC CUGAUGAG	GCCGUUAGGC	CGAA AUUCGUUU	26022
1324	9706	GCGAUCGU C CAGGGGCU	7647	AGCCCCUG CUGAUGAG	GCCGUUAGGC	CGAA AGCAUCCG	26023
1333	9697	CAGGGGCU U UACCACAC	7648	UGUGUGUA CUGAUGAG	GCCGUUAGGC	CGAA AAGCCCCU	26024
1334	9696	AGGGGCUU U ACCACACA	7649	UGUGUGGU CUGAUGAG	GCCGUUAGGC	CGAA AAGCCCCU	26025
1335	9695	GGGGCUUU A CCACACAG	7650	CUGUGUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGCCCCU	26026
1345	9685	CACACAGU C AUCUCCAC	7651	GUGGAGAU CUGAUGAG	GCCGUUAGGC	CGAA ACUGUGUG	26027
1348	9682	ACAGUCAU C UCCACUGA	7652	UCAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA AUGACUGU	26028
1350	9680	AGUCAUCU C CACUGACA	7653	UGUCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AGAUGACU	26029
1374	9656	GGCUGAGU C UUUCUUCU	7654	GGAAGAAA CUGAUGAG	GCCGUUAGGC	CGAA ACUCAGCC	26030
1376	9654	CUGAGUCU U UCUUCCCC	7655	GGGGAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGACUCAG	26031
1377	9653	UGAGUCUU U CUUCCCAU	7656	UGGGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGACUCA	26032
1378	9652	GAGUCUUU C UUCCCAU	7657	AUGGGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGACUC	26033
1380	9650	GUCUUUCU U CCCCNUC	7658	GAAUGGGG CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGAC	26034
1381	9649	UCUUUCUU C CCCAUUCU	7659	AGAAUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGA	26035
1387	9643	UUCCCAU U CUCAAACA	7660	UGUUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGGGAA	26036
1388	9642	UCCCAUUC C UCAAACAG	7661	CUGUUUGA CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGGA	26037
1390	9640	CCCAUUCU C AAACAGCC	7662	GGCUGUUU CUGAUGAG	GCCGUUAGGC	CGAA AGAAUGGG	26038
1403	9627	AGCCAGGU C CUGACUUU	7663	AAAGUCAG CUGAUGAG	GCCGUUAGGC	CGAA ACCUGGCU	26039
1410	9620	UCCUGACU U UGGGUCCU	7664	AGGACCCA CUGAUGAG	GCCGUUAGGC	CGAA AGUCAGGA	26040
1411	9619	CCUGACTU U GGGUCUUU	7665	AAGGACCC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAGG	26041
1416	9614	CUUUGGGU C CUUUCUUU	7666	AGGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA ACCCAAAG	26042
1419	9611	UGGGUCCU U UCCCUUUU	7667	AAAAGGGG CUGAUGAG	GCCGUUAGGC	CGAA AGGACCCA	26043
1420	9610	GGGUCCUU U CCCUUUUG	7668	CAAAAGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGGACCC	26044
1421	9609	GGUCCUUU C CCUUUUUG	7669	ACAAAAGG CUGAUGAG	GCCGUUAGGC	CGAA AAAGGACC	26045
1425	9605	CUUUCUUU U UUGUGAGU	7670	ACUCACAA CUGAUGAG	GCCGUUAGGC	CGAA AGGGAAAG	26046
1426	9604	UUUCCUUU U UGUGAGUU	7671	AACUCACA CUGAUGAG	GCCGUUAGGC	CGAA AAGGGAAA	26047
1427	9603	UUCCCUUU U GUGAGUUU	7672	AAACUCAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGGGAA	26048
1434	9596	UUGUGAGU U UCUCACAA	7673	UGUGGAGA CUGAUGAG	GCCGUUAGGC	CGAA ACUCACAA	26049
1435	9595	UGUGAGUU U CUCCACAU	7674	AUGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA AACUCACA	26050
1436	9594	GUGAGUUU C UCCACAU	7675	GAUGUGGA CUGAUGAG	GCCGUUAGGC	CGAA AAACUCAC	26051
1438	9592	GAGUUUCU C CACAUCAU	7676	AUGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA AGAAACUC	26052
1444	9586	CUCCAUCU C AUCUGGGC	7677	GCCCAUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGAG	26053

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1447	9583	CACAUCAU C UGGGCCAA	7678	UUGGCCCA CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGUG	26054
1457	9573	GGGCCAAU C ACUCCUUC	7679	GAAGGAGU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGCCC	26055
1461	9569	CAAUACAU C CUUCCCCU	7680	AGGGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUUG	26056
1464	9566	UCACUCCU U CCCCUUCC	7681	GGGAAGGG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGUGA	26057
1465	9565	CACUCCUU C CCCUCCA	7682	UGGAAGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGUG	26058
1470	9560	CUUCCCCU U CCAUCAUC	7683	GAUGAUGG CUGAUGAG	GCCGUUAGGC	CGAA AGGGGAAG	26059
1471	9559	UUCCCCU C CAUCAUCC	7684	GGGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGGGGAA	26060
1475	9555	CCUUCCAU C AUCCUCAC	7685	GUGAGGAU CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAGG	26061
1478	9552	UCCAUCAU C CUCACCAG	7686	CUGGUGAG CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGGA	26062
1481	9549	AUCAUCCU C ACCAGCUG	7687	CAGCUGGU CUGAUGAG	GCCGUUAGGC	CGAA AGGAUGAU	26063
1501	9529	GGCCAGGU U GGUGAAAG	7688	CUUUCACC CUGAUGAG	GCCGUUAGGC	CGAA ACCUGGCC	26064
1513	9517	GAAAGUGU U UAGGGCGU	7689	ACGCCCUA CUGAUGAG	GCCGUUAGGC	CGAA ACACUUUC	26065
1514	9516	AAAGUGUU U AGGGCGUA	7690	UACGCCCU CUGAUGAG	GCCGUUAGGC	CGAA AACACUUU	26066
1515	9515	AAUGUUUU A GGGCGUAG	7691	CUACGCCU CUGAUGAG	GCCGUUAGGC	CGAA AAACACUU	26067
1522	9508	UAGGGCGU A GGUGACAA	7692	UUGUCACC CUGAUGAG	GCCGUUAGGC	CGAA ACGCCCUA	26068
1533	9497	UGACAACU U GUCCACUC	7693	GAGUGGAC CUGAUGAG	GCCGUUAGGC	CGAA AGUUGUCA	26069
1536	9494	CAACUUGU C CACUCCCC	7694	GGGGAGUG CUGAUGAG	GCCGUUAGGC	CGAA ACAAGUUG	26070
1541	9489	UGUCCACU C CCCUCUG	7695	CAGAGGGG CUGAUGAG	GCCGUUAGGC	CGAA AGUGGACA	26071
1547	9483	CUCCCCU C UGAUCUUC	7696	GAAGAUA CUGAUGAG	GCCGUUAGGC	CGAA AGGGGGAG	26072
1552	9478	CCUCUGAU C UUCUCUGG	7697	CCAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AUCAGAGG	26073
1554	9476	UCUGAUCU U CUCUGGAG	7698	CUCCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAUCAGA	26074
1555	9475	CUGAUCUU C UCUGGAGA	7699	UCUCCAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGAUCAG	26075
1557	9473	GAUCUUCU C UGGAGUA	7700	UAUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA AGAAGUUC	26076
1565	9465	CUGGAGAU A ACAUCCAU	7701	AUGGAUGU CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCAG	26077
1570	9460	GAUAACAU C CAUGACGG	7702	CCGUC AUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUUAUC	26078
1580	9450	AUGACGGU U CUUCCAUC	7703	GAUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACCGUCAU	26079
1581	9449	UGACGGUU C UUCCAUA	7704	UGAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AACCUGUA	26080
1583	9447	ACGGUUCU U CCAUCAGC	7705	GCUGAUG CUGAUGAG	GCCGUUAGGC	CGAA AGAACCGU	26081
1584	9446	CGUUCUU C CAUCAGCA	7706	UGCUGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGAACCG	26082
1588	9442	UCUCCAU C AGCAGCCG	7707	CGGCUGCU CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAGA	26083
1604	9426	GGGCGCAU C ACUUCAC	7708	GUGAAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUGCGCCC	26084
1608	9422	GCAUCACU U UCACAACU	7709	AGUUGUGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUGC	26085
1609	9421	CAUCACUU U CACAACUU	7710	AAGUUGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUGAUG	26086
1610	9420	AUCACUUU C ACAACUUU	7711	AAAGUUGU CUGAUGAG	GCCGUUAGGC	CGAA AAAGUGAU	26087
1617	9413	UCACAACU U UGUGACGA	7712	UCGUCACA CUGAUGAG	GCCGUUAGGC	CGAA AGUUGUGA	26088
1618	9412	CACAACUU U GUGACGAU	7713	AUCGUCAC CUGAUGAG	GCCGUUAGGC	CGAA AAGUUGUG	26089
1627	9403	GUGACGAU A GGUGAGCU	7714	AGCUCACC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAC	26090
1636	9394	GGUGAGCU C AAUGAUGG	7715	CCAUCAU CUGAUGAG	GCCGUUAGGC	CGAA AGCUCACC	26091
1665	9365	GCCGAUGU U CCCCAUCA	7716	UGAUGGGG CUGAUGAG	GCCGUUAGGC	CGAA ACAUCGGC	26092
1666	9364	CCGAUGUU C CCCAUCAA	7717	UGAUGGG CUGAUGAG	GCCGUUAGGC	CGAA AACAUCCG	26093
1672	9358	UUCCCCAU C AAGCAGCU	7718	AGCUGCUU CUGAUGAG	GCCGUUAGGC	CGAA AUGGGGAA	26094
1681	9349	AAGCAGCU C AAGCACC	7719	AGGUGCUU CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCUU	26095
1690	9340	AAGCACC U AGCUUCAU	7720	AUGAAGCU CUGAUGAG	GCCGUUAGGC	CGAA AGGUGCUU	26096
1691	9339	AGCACC U GCUUCAU	7721	AAUGAAGC CUGAUGAG	GCCGUUAGGC	CGAA AAGUGCUU	26097
1695	9335	CCUAGCU U CAUUUCC	7722	GGAAAUG CUGAUGAG	GCCGUUAGGC	CGAA AGCUAAGG	26098
1696	9334	CUUAGCUU C AUUUCCA	7723	UGGAAA U CUGAUGAG	GCCGUUAGGC	CGAA AAGCUAAG	26099
1699	9331	AGCUUCAU U UUCCAAGU	7724	ACUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGAAGCU	26100
1700	9330	GCUUCAU U UCCAAGUC	7725	GACUUGGA CUGAUGAG	GCCGUUAGGC	CGAA AAUGAAGC	26101
1701	9329	CUUCAUUU U CCAAGUCA	7726	UGACUUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAUGAAG	26102
1702	9328	UUCAUUUU C CAAGUCAG	7727	CUGACUUG CUGAUGAG	GCCGUUAGGC	CGAA AAAUGGAA	26103
1708	9322	UUCCAAGU C AGCUCUCG	7728	CGAGAGCU CUGAUGAG	GCCGUUAGGC	CGAA ACUUGGAA	26104
1713	9317	AGUCAGCU C UCGUGAUG	7729	CAUCACGA CUGAUGAG	GCCGUUAGGC	CGAA AGCUGACU	26105
1715	9315	UCAGCUCU C GUGAUGCG	7730	CGAUCAC CUGAUGAG	GCCGUUAGGC	CGAA AGAGCUGA	26106
1729	9301	GCGGGUGU C CCAGCCAG	7731	CUGGCUGG CUGAUGAG	GCCGUUAGGC	CGAA ACACCCGC	26107
1744	9286	AGCUGUGU C AUCAGCAU	7732	AUGCUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACACAGCU	26108
1747	9283	UGUGUCAU C AGCAUAGA	7733	UCUAUGCU CUGAUGAG	GCCGUUAGGC	CGAA AUGACACA	26109
1753	9277	AUCAGCAU A GAUCUUGC	7734	GCAAGAUC CUGAUGAG	GCCGUUAGGC	CGAA AUGCUGAU	26110
1757	9273	GCAUAGAU C UUGCCCC	7735	GGGGGCAA CUGAUGAG	GCCGUUAGGC	CGAA AUCUAGC	26111
1759	9271	AUAGAUU U GCCCCAG	7736	CUGGGGUG CUGAUGAG	GCCGUUAGGC	CGAA AGAUCUAU	26112
1782	9248	UGCCAACU U CACGACGG	7737	CCUGCGUG CUGAUGAG	GCCGUUAGGC	CGAA AGUUGGCA	26113
1783	9247	GCCAACU C ACGCAGGA	7738	UCCUGCGU CUGAUGAG	GCCGUUAGGC	CGAA AAGUUGGC	26114
1795	9235	CAGGAUGU A ACCCAGUU	7739	AACUGGGU CUGAUGAG	GCCGUUAGGC	CGAA ACAUCCUG	26115

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1803	9227	AACCCAGU U UUUGGAGG	7740	CCUCCAAA CUGAUGAG	GCCGUUAGGC	CGAA ACUGGGUU	26116
1804	9226	ACCCAGUU U UUGGAGGC	7741	GCCUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AACUGGGU	26117
1805	9225	CCCAGUUU U UGGAGGCC	7742	GGCCUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAACUGGG	26118
1806	9224	CCAGUUUU U GGAGGCC	7743	GGGCCUCC CUGAUGAG	GCCGUUAGGC	CGAA AAAACUGG	26119
1822	9208	CAAGCCCU C GACACCUC	7744	GAGGUGUC CUGAUGAG	GCCGUUAGGC	CGAA AGGGCUUG	26120
1830	9200	CGACACCU C CUCCUGAG	7745	CUCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGGUGUCG	26121
1833	9197	CACCUCU C CUGAGUUC	7746	GAACUCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGUG	26122
1840	9190	UCCUGAGU U CUUUCUUC	7747	GAAGAAAG CUGAUGAG	GCCGUUAGGC	CGAA ACUCAGGA	26123
1841	9189	CCUGAGUU C UUUCUUC	7748	GGAAGAAA CUGAUGAG	GCCGUUAGGC	CGAA AACUCAGG	26124
1843	9187	UGAGUUUU U UCUCUCAA	7749	UUGGAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGAACUCA	26125
1844	9186	GAGUUUUU U CUUCCAAG	7750	CUUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGAACUC	26126
1845	9185	AGUUCUUU C UUCAAGC	7751	GCUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGAACU	26127
1847	9183	UUCUUUUU U CCAAGCCA	7752	UGGCUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGAA	26128
1848	9182	UCUUUUUU C CAAGCCAG	7753	CUGGCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGA	26129
1861	9169	CCAGUGGU C UUCAUUGA	7754	UCAUGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACCACUGG	26130
1863	9167	AGUGGUCU U CAUUGAGA	7755	UCUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA AGACCACU	26131
1864	9166	GUGGUCUU C AUUGAGAA	7756	UUCUCAAU CUGAUGAG	GCCGUUAGGC	CGAA AAGACCAC	26132
1867	9163	GUCUUCAU U GAGAAAAC	7757	GUUUUCUC CUGAUGAG	GCCGUUAGGC	CGAA AUGAAGAC	26133
1885	9145	CAGAGCCU C GAACUCCA	7758	UGGAGUUC CUGAUGAG	GCCGUUAGGC	CGAA AGGCUCUG	26134
1891	9139	CUCGAACU C CAGAAAGC	7759	GCUUUCUG CUGAUGAG	GCCGUUAGGC	CGAA AGUUCGAG	26135
1905	9125	AGCGAGCU C CGAGCCAC	7760	GUGGCUUG CUGAUGAG	GCCGUUAGGC	CGAA AGCUCGCU	26136
1929	9101	AAAUAGGU C UGUUUCCC	7761	GGGAAGCA CUGAUGAG	GCCGUUAGGC	CGAA AGCCAUUU	26137
1934	9096	GCUCUGCU U CCCUUGGC	7762	GCCAAGGG CUGAUGAG	GCCGUUAGGC	CGAA AGCAGAGC	26138
1935	9095	CUCUGCUU C CCUUGGCC	7763	GGCCAAGG CUGAUGAG	GCCGUUAGGC	CGAA AAGCAGAG	26139
1939	9091	GCUUCCCU U GGCCUUUC	7764	GAAAGGCC CUGAUGAG	GCCGUUAGGC	CGAA AGGGAAGC	26140
1945	9085	CUUGGCCU U UCCGAACU	7765	AGUUCGGA CUGAUGAG	GCCGUUAGGC	CGAA AGGCCAAG	26141
1946	9084	UUGGCCUU U CCGAACUC	7766	GAGUUCGG CUGAUGAG	GCCGUUAGGC	CGAA AAGGCCAA	26142
1947	9083	UGGCCUUU C CGAACUCU	7767	AGAGUUCG CUGAUGAG	GCCGUUAGGC	CGAA AAAGGCCA	26143
1954	9076	UCCGAACU C UCCGGGUU	7768	AACCCGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUUCGGA	26144
1956	9074	CGAACUCU C CGGGUUUU	7769	AAAACCGG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUUCG	26145
1962	9068	CUCCGGGU U UUUUCUCU	7770	AGAGAAAA CUGAUGAG	GCCGUUAGGC	CGAA ACCCGGAG	26146
1963	9067	UCCGGGUU U UUUCUCUC	7771	GAGAGAAA CUGAUGAG	GCCGUUAGGC	CGAA AACCCGGA	26147
1964	9066	CCGGGUUU U UUCUCUCU	7772	AGAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AAACCCGG	26148
1965	9065	CGGGUUUU U UCUCUCUC	7773	GAGAGAGA CUGAUGAG	GCCGUUAGGC	CGAA AAAACCCG	26149
1966	9064	GGGUUUUU U CUCUCUCU	7774	AGAGAGAG CUGAUGAG	GCCGUUAGGC	CGAA AAAAACCC	26150
1967	9063	GGUUUUUU C UCUCUCUU	7775	AAGAGAGA CUGAUGAG	GCCGUUAGGC	CGAA AAAAAACC	26151
1969	9061	UUUUUUUU C UCUCUUUC	7776	GAAAGAGA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAAAA	26152
1971	9059	UUUUCUCU C UCUCUUCC	7777	GGGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGAGAAAA	26153
1973	9057	UUCUCUCU C UUUCUCAU	7778	AUGGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AGAGAGAA	26154
1975	9055	CUCUCUCU U UCCCAUCA	7779	UGAUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAGAGAG	26155
1976	9054	UCUCUCUU U CCCAUCAU	7780	AUGAUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAGAGA	26156
1977	9053	CUCUCUUU C CCAUCAUG	7781	CAUGAUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAGAG	26157
1982	9048	UUUCCCAU C AUGUUGUA	7782	UACAACAU CUGAUGAG	GCCGUUAGGC	CGAA AUGGGAAA	26158
1987	9043	CAUCAUGU U GUAAAUUC	7783	GCAUUUAC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGAUG	26159
1990	9040	CAUGUUGU A AAUGCAAG	7784	CUUGCAUU CUGAUGAG	GCCGUUAGGC	CGAA ACAACAUG	26160
2007	9023	UGUGACAU U CCCCCGC	7785	GCGGGGGG CUGAUGAG	GCCGUUAGGC	CGAA AUGUCACA	26161
2008	9022	GUGACAUU C CCCCCGCA	7786	UGC GG GGG CUGAUGAG	GCCGUUAGGC	CGAA AAUGUCAC	26162
2026	9004	AUGUGCCU C GCGCUCU	7787	AGGAGCGC CUGAUGAG	GCCGUUAGGC	CGAA AGGCACAU	26163
2032	8998	CUCGCGCU C CUCAUCCA	7788	UGGAUGAG CUGAUGAG	GCCGUUAGGC	CGAA AGCGCGAG	26164
2035	8995	GCGCUCU C AUCCACCA	7789	UGGUGGAU CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCGC	26165
2038	8992	CUCCUCAU C CACCAUCU	7790	AGAUGGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGAGGAG	26166
2045	8985	UCCACCAU C UCCCAAAA	7791	UUUUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGUGGA	26167
2047	8983	CACCAUCU C CCAAAAUU	7792	AAUUUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAUGGUG	26168
2055	8975	CCCAAAAU U UUGGAUCU	7793	AGAUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AUUUUGGG	26169
2056	8974	CCAAAUUU U UGGAUCUU	7794	AAGAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUUUUGG	26170
2057	8973	CAAAAUUU U GGAUCUUC	7795	GAAGAUCU CUGAUGAG	GCCGUUAGGC	CGAA AAAUUUUG	26171
2062	8968	UUUUGGAU C UUCAACUG	7796	CAGUUGAA CUGAUGAG	GCCGUUAGGC	CGAA AUCCAAAA	26172
2064	8966	UUGGAUCU U CAACUGCU	7797	AGCAGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGAUCCAA	26173
2065	8965	UGGAUCUU C AACUGCUU	7798	AAGCAGUU CUGAUGAG	GCCGUUAGGC	CGAA AAGAUCCA	26174
2073	8957	CAACUGCU U CUCUGGCG	7799	CGCCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUUG	26175
2074	8956	AACUGCUU C UCUGGCGC	7800	GCGCCAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGCAGUU	26176
2076	8954	CUGCUUCU C UGGCGCUC	7801	GAGCGCCA CUGAUGAG	GCCGUUAGGC	CGAA AGAAGCAG	26177

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2084	8946	CUGGCGCU C CUCCAUG	7802	CAAUGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGCGCCAG	26178
2087	8943	GCGCUCU C CAUUGAUU	7803	AAUCAAUG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCGC	26179
2091	8939	UCCUCCAU U GAUUCUGC	7804	GCAGAAUC CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGGA	26180
2095	8935	CCAUGAU U CUGCUCU	7805	AAGAGCAG CUGAUGAG	GCCGUUAGGC	CGAA AUCAAUGG	26181
2096	8934	CAUUGAUU C UGCUCUUC	7806	GAAGAGCA CUGAUGAG	GCCGUUAGGC	CGAA AAUCAAUG	26182
2101	8929	AUUCUGCU C UUCAACA	7807	UGUUUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGCAGAAU	26183
2103	8927	UCUGCUCU U CAAACAUG	7808	CAUGUUUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCAGA	26184
2104	8926	CUGCUCU C AAACAUGG	7809	CCAUGUUU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGCAG	26185
2128	8902	AGCUGCAU U GCUGUUGA	7810	UCAACAGC CUGAUGAG	GCCGUUAGGC	CGAA AUGCAGCU	26186
2134	8896	AUUGCUGU U GACCUUUC	7811	GAAAGGUC CUGAUGAG	GCCGUUAGGC	CGAA AAGCAAAU	26187
2140	8890	GUUGACCU U UCUUAUGA	7812	UCAUAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGGUCAAC	26188
2141	8889	UUGACCUU U CUUAUGAA	7813	UUCAUAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGGUCAA	26189
2142	8888	UGACCUUU C UUAUGAAU	7814	AUUCAUAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGGUCA	26190
2144	8886	ACCUUUCU U AUGAAUUC	7815	GAAUUAU CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGGU	26191
2145	8885	CUUUUCU A UGAAUUC	7816	GGAAUUA CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGG	26192
2151	8879	UUAUGAAU U CCUCUCGA	7817	UCGAGAGG CUGAUGAG	GCCGUUAGGC	CGAA AUUCAUAA	26193
2152	8878	UAUGAAU C CUCUCGAG	7818	CUCGAGAG CUGAUGAG	GCCGUUAGGC	CGAA AAUUCAUA	26194
2155	8875	GAAUUCU C UCGAGAGC	7819	GCUCUCGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAAUUC	26195
2157	8873	AUUCUCU C GAGAGCAC	7820	GUGCUCUC CUGAUGAG	GCCGUUAGGC	CGAA AGAGGAAU	26196
2168	8862	GAGCAU U CUGGGACG	7821	CGUCCAG CUGAUGAG	GCCGUUAGGC	CGAA AUGUGCUC	26197
2169	8861	AGCAU C UGGGACGU	7822	ACGUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUGUGCU	26198
2178	8852	UGGGACGU U UUUUCUG	7823	CAGAGAAA CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCCA	26199
2179	8851	GGGACGUU U UUCUCUGG	7824	CCAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AACGUCCC	26200
2180	8850	GGACGUU U UCUCUGGC	7825	GCCAGAGA CUGAUGAG	GCCGUUAGGC	CGAA AAACGUCC	26201
2181	8849	GACGUUU U CUCUGGCC	7826	GGCCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AAAACGUC	26202
2182	8848	ACGUUUU C UCUGGCCA	7827	UUGCCAGA CUGAUGAG	GCCGUUAGGC	CGAA AAAAACGU	26203
2184	8846	GUUUUUCU C UGGCCAAA	7828	UUUGGCCA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAAAC	26204
2209	8821	CAACCAGU U GGUGGUCU	7829	AGACCACC CUGAUGAG	GCCGUUAGGC	CGAA ACUGGUG	26205
2216	8814	UUGGUGGU C UCAUUGAG	7830	CUCAUGA CUGAUGAG	GCCGUUAGGC	CGAA ACCACCAA	26206
2218	8812	GGUGGUCU C AUUGAGCA	7831	UGCUGAAU CUGAUGAG	GCCGUUAGGC	CGAA AGACCACC	26207
2221	8809	GGUCUUAU U GAGCACGU	7832	ACGUGCUC CUGAUGAG	GCCGUUAGGC	CGAA AUGAGACC	26208
2230	8800	GAGCACGU A CUUCACUC	7833	GAGUGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACGUGCUC	26209
2233	8797	CACGUACU U CACUCUUC	7834	AAGGAGUG CUGAUGAG	GCCGUUAGGC	CGAA AGUACGUG	26210
2234	8796	ACGUACU C ACUCUUC	7835	GAAGGAGU CUGAUGAG	GCCGUUAGGC	CGAA AAGUACGU	26211
2238	8792	ACUUCACU C CUUCUGGC	7836	GCCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGAAGU	26212
2241	8789	UCACUCCU U CUGGCGGU	7837	ACCGCCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGUGA	26213
2242	8788	CACUCCU C UGGCGGUU	7838	AACCGCCA CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGUG	26214
2250	8780	CUGGCGGU U CAGGAGCU	7839	AGCUCUC CUGAUGAG	GCCGUUAGGC	CGAA ACCGCCAG	26215
2251	8779	UGGCGGUU C AGGAGCUU	7840	AAGCUCU CUGAUGAG	GCCGUUAGGC	CGAA AACCGCCA	26216
2259	8771	CAGGAGCU U UCUGUCC	7841	GGACACGA CUGAUGAG	GCCGUUAGGC	CGAA AGCUCUC	26217
2260	8770	AGGAGCUU U CGUGUCCA	7842	UGGACACG CUGAUGAG	GCCGUUAGGC	CGAA AAGCUCU	26218
2261	8769	GGAGCUU C GUGUCCAC	7843	GUGGACAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGCUC	26219
2266	8764	UUUCUGU C CACUUCU	7844	AGAAGUG CUGAUGAG	GCCGUUAGGC	CGAA ACACGAAA	26220
2272	8758	GUCCACCU U CUCUUGA	7845	UCAAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGGUGGAC	26221
2273	8757	UCCACCU C UCUCUGAA	7846	UUCAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGGA	26222
2275	8755	CACCUUCU C UUUGAACA	7847	UGUUCAAA CUGAUGAG	GCCGUUAGGC	CGAA AGAAGGUG	26223
2277	8753	CUUCUCU U UGAACACU	7848	AGUGUUA CUGAUGAG	GCCGUUAGGC	CGAA AGAGAAGG	26224
2278	8752	CUUCUCU U GAACACUC	7849	GAGUGUUC CUGAUGAG	GCCGUUAGGC	CGAA AGAGAGA	26225
2286	8744	UGAACACU C GCUGCUGC	7850	GCAGCAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUUA	26226
2306	8724	AAGGGAGU A GUGUCAGU	7851	ACUGACAC CUGAUGAG	GCCGUUAGGC	CGAA ACUCCUUC	26227
2311	8719	AGUAGUGU C AGUCAUGG	7852	CCAUGACU CUGAUGAG	GCCGUUAGGC	CGAA ACACUACU	26228
2315	8715	GUGUCAGU C AUGGCCAU	7853	AUGGCCAU CUGAUGAG	GCCGUUAGGC	CGAA ACUGACAC	26229
2330	8700	AUGGUGGU A ACAUUCGU	7854	ACGAAUG CUGAUGAG	GCCGUUAGGC	CGAA ACCACCAU	26230
2335	8695	GGUAACAU U CGUGAUGG	7855	CCAUCAG CUGAUGAG	GCCGUUAGGC	CGAA AUGUUAAC	26231
2336	8694	GUAAACAU C GUGAUGGU	7856	ACCAUCAC CUGAUGAG	GCCGUUAGGC	CGAA AAUGUUA	26232
2347	8683	GAUGGUGU C CCAUGGUU	7857	AACCAUG CUGAUGAG	GCCGUUAGGC	CGAA ACACCAUC	26233
2355	8675	CCAUGGUU U UUGAGAGG	7858	CCUCUCA CUGAUGAG	GCCGUUAGGC	CGAA ACCAUGGG	26234
2356	8674	CCAUGGUU U UGAGAGGA	7859	UCCUCUCA CUGAUGAG	GCCGUUAGGC	CGAA AACCAUGG	26235
2357	8673	CAUGGUUU U GAGAGGAG	7860	CUCCUCUC CUGAUGAG	GCCGUUAGGC	CGAA AAACCAUG	26236
2376	8654	UGAACACU C CAUGAGCC	7861	GGUCAAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGUGUA	26237
2380	8650	CACUCCAU U GACCAGCG	7862	CGCUGGUC CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGUG	26238
2410	8620	UGUGGCGU U CACAUCAU	7863	AUGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA AGCCACA	26239

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2411	8619	GUGGGCUU C ACAUCAUA	7864	UAUGAUGU CUGAUGAG	GCCGUUAGGC	CGAA AAGCCAC	26240
2416	8614	CUUCACAU C AUAACUGC	7865	GCAGUUUAU CUGAUGAG	GCCGUUAGGC	CGAA AUGUGAAG	26241
2419	8611	CACAUCAU A ACUGCCGU	7866	ACGGCAGU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGUG	26242
2431	8599	GCCGUGAU A GUUCCAGG	7867	CCUGGAAC CUGAUGAG	GCCGUUAGGC	CGAA AUCACGGC	26243
2434	8596	GUGAUAGU U CCAGGUUC	7868	GAACCUGG CUGAUGAG	GCCGUUAGGC	CGAA ACUAUCAC	26244
2435	8595	UGAUAGUU C CAGGUUCU	7869	AGAACCUG CUGAUGAG	GCCGUUAGGC	CGAA AACUAUCA	26245
2441	8589	UUCCAGGU U CUAUAUGG	7870	CCAUAUAG CUGAUGAG	GCCGUUAGGC	CGAA ACCUGGAA	26246
2442	8588	UCCAGGUU C UAUUAUGG	7871	CCCAUAUA CUGAUGAG	GCCGUUAGGC	CGAA AACCCUGA	26247
2444	8586	CAGGUUCU A UAUGGGUG	7872	CACCCAUA CUGAUGAG	GCCGUUAGGC	CGAA AGAACCCUG	26248
2446	8584	GGUUCUAU A UGGGUGGU	7873	ACCACCCA CUGAUGAG	GCCGUUAGGC	CGAA AUAGAACC	26249
2455	8575	UGGGUGGU U CUCAUCGU	7874	ACGAUGAG CUGAUGAG	GCCGUUAGGC	CGAA ACCACCCA	26250
2456	8574	GGGUGGUU C UCAUCGUG	7875	CACGAUGA CUGAUGAG	GCCGUUAGGC	CGAA AACACCCC	26251
2458	8572	GUGGUUCU C AUCGUGGU	7876	ACCACGAU CUGAUGAG	GCCGUUAGGC	CGAA AGAACCCAC	26252
2461	8569	GUUCUCAU C GUGGUGCC	7877	GGCACCAC CUGAUGAG	GCCGUUAGGC	CGAA AUGAGAAC	26253
2474	8556	UGCCACGU C GAACUGUA	7878	UACGAUGA CUGAUGAG	GCCGUUAGGC	CGAA ACGUGGCA	26254
2482	8548	CGAACUGU A CUCACGCC	7879	GGCGUGAG CUGAUGAG	GCCGUUAGGC	CGAA ACAGUUCG	26255
2485	8545	ACUGUACU C ACGCCUGA	7880	UCAGGCGU CUGAUGAG	GCCGUUAGGC	CGAA AGUACAGU	26256
2496	8534	GCCUGAGU C GUUCAUUC	7881	GAUUGAAC CUGAUGAG	GCCGUUAGGC	CGAA ACUCAGGC	26257
2499	8531	UGAGUCGU U CAUCCUG	7882	CAGGAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACGACUCA	26258
2500	8530	GAGUCGUU C AAUCCUGU	7883	ACAGGAUU CUGAUGAG	GCCGUUAGGC	CGAA AACGACUC	26259
2504	8526	CGUUCAAU C CUGUUCU	7884	AAGAACAG CUGAUGAG	GCCGUUAGGC	CGAA AUUGAACG	26260
2509	8521	AAUCCUGU U CUUGAUUU	7885	AAAUCAAG CUGAUGAG	GCCGUUAGGC	CGAA ACAGGAUU	26261
2510	8520	AUCCUGUU C UUGAUUUU	7886	AAAUAUAA CUGAUGAG	GCCGUUAGGC	CGAA AACAGGAU	26262
2512	8518	CCUGUUCU U GAUUUAC	7887	GUAAAAUC CUGAUGAG	GCCGUUAGGC	CGAA AGAACAGG	26263
2516	8514	UUUUGAUU U UUAUUGGU	7888	ACCAGUAA CUGAUGAG	GCCGUUAGGC	CGAA AUCAAGAA	26264
2517	8513	UCUUGAUU U UACUGGUG	7889	CACCAGUA CUGAUGAG	GCCGUUAGGC	CGAA AAUCAAGA	26265
2518	8512	CUUGAUUU U ACUGGUGU	7890	ACACCAGU CUGAUGAG	GCCGUUAGGC	CGAA AAAUCAAG	26266
2519	8511	UUGAUUUU A CUGGUGUC	7891	GACACCAG CUGAUGAG	GCCGUUAGGC	CGAA AAAAUCAA	26267
2527	8503	ACUGGUGU C UGAGUUGA	7892	UCAACUCA CUGAUGAG	GCCGUUAGGC	CGAA ACACCAGU	26268
2533	8497	GUCUGAGU U GAGCAGGG	7893	CCCUGCUC CUGAUGAG	GCCGUUAGGC	CGAA ACUCAGAC	26269
2544	8486	GCAGGGGU U UUCCCACC	7894	GGUGGGAA CUGAUGAG	GCCGUUAGGC	CGAA ACCCCUGC	26270
2545	8485	CAGGGGUU U UCCCACCG	7895	CGGUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AACCCUG	26271
2546	8484	AGGGGUUU U CCCACCGC	7896	GCGGUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAACCCCU	26272
2547	8483	GGGGUUUU C CCACCGCC	7897	GGCGUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAAACCCC	26273
2561	8469	GCCCUGGU U CCACUUC	7898	GGAGUGG CUGAUGAG	GCCGUUAGGC	CGAA ACCAGGGC	26274
2562	8468	CCCUGGUU C CACUUC	7899	GGGAAGUG CUGAUGAG	GCCGUUAGGC	CGAA AACACGGG	26275
2567	8463	GUUCCACU U CCAAGUU	7900	AACUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAAC	26276
2568	8462	UUCCACU C CCAAGUU	7901	AAACUUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGUGGAA	26277
2575	8455	UCCCAAGU U UACAUCU	7902	AAGAUGUA CUGAUGAG	GCCGUUAGGC	CGAA ACUUGGGA	26278
2576	8454	CCCAAGUU U ACAUCUUC	7903	GAAGAUGU CUGAUGAG	GCCGUUAGGC	CGAA AACUUGGG	26279
2577	8453	CCAAGUUU A CAUCUUC	7904	GGAGAUG CUGAUGAG	GCCGUUAGGC	CGAA AAACUUGG	26280
2581	8449	GUUACAU C UUCUCUGU	7905	ACGAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGUAAAC	26281
2583	8447	UUACAUCU U CCUCGAU	7906	AUACGAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAUGUAA	26282
2584	8446	UACAUCU C CUCGAUU	7907	AAUACGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGUA	26283
2587	8443	AUCUUCU C GUUUUGG	7908	CCCAUAC CUGAUGAG	GCCGUUAGGC	CGAA AGGAAGAU	26284
2590	8440	UUCCUGU A UUGGGUC	7909	GACCCAA CUGAUGAG	GCCGUUAGGC	CGAA ACGAGGAA	26285
2592	8438	CCUCGAU U GGGUCCC	7910	GGGACCCC CUGAUGAG	GCCGUUAGGC	CGAA AUACGAGG	26286
2598	8432	AUUGGGGU C CCUCCAG	7911	CUGGAAGG CUGAUGAG	GCCGUUAGGC	CGAA ACCCCAAU	26287
2602	8428	GGGUCCC U CCAGGUCC	7912	GGACCUGG CUGAUGAG	GCCGUUAGGC	CGAA AGGGACCC	26288
2603	8427	GGUCCCU C CAGGUCCU	7913	AGGACCUG CUGAUGAG	GCCGUUAGGC	CGAA AAGGGACC	26289
2609	8421	UUCAGGU C CUUUUUC	7914	GAAAAAAG CUGAUGAG	GCCGUUAGGC	CGAA ACCUGGAA	26290
2612	8418	CAGGUCCU U UUUUCCAU	7915	AUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AGGACCUG	26291
2613	8417	AGGUCCU U UUUCCAU	7916	AAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAGGACCU	26292
2614	8416	GUCCUUU U UUCAUUC	7917	GAAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGGACC	26293
2615	8415	GUCCUUU U UCCAUCU	7918	AGAAUGGA CUGAUGAG	GCCGUUAGGC	CGAA AAAAGGAC	26294
2616	8414	UCCUUUU U CCAUUCU	7919	AAGAAUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAAAGGA	26295
2617	8413	CCUUUUU C CAUUCUUC	7920	GAAAGAAUG CUGAUGAG	GCCGUUAGGC	CGAA AAAAAAGG	26296
2621	8409	UUUCCAU U CUUCCUAG	7921	CUAGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAA	26297
2622	8408	UUUCCAU C UUCCUAGG	7922	CCUAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAUGGAAA	26298
2624	8406	UCCAUCU U CCUAGGAG	7923	CUCCUAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUGGA	26299
2625	8405	CCAUCUU C CUAGGAGC	7924	GCUCUAG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAUGG	26300
2628	8402	UUCUUCU A GGAGCACC	7925	GGUGCUC CUGAUGAG	GCCGUUAGGC	CGAA AGGAAGAA	26301

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2645	8385	UGGCUUGU C AUAUUCAC	7926	GUGAAUUAU CUGAUGAG	GCCGUUAGGC	CGAA ACCAGCCA	26302
2648	8382	CUGGUCAU A UUCACUGA	7927	UCAGUGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGACCAG	26303
2650	8380	GGUCAUAU U CACUGAAU	7928	AUUCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AUAUGACC	26304
2651	8379	GUCAUAU C ACUGAAUG	7929	CAUUCAGU CUGAUGAG	GCCGUUAGGC	CGAA AAUAUGAC	26305
2661	8369	CUGAAUGU A CCACAUUG	7930	CAAUGUGG CUGAUGAG	GCCGUUAGGC	CGAA ACAUUCAG	26306
2668	8362	UACCACAU U GCCUGAAG	7931	CUUCAGGC CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGUA	26307
2679	8351	CUGAAGCU C GACUCACC	7932	GGUGAGUC CUGAUGAG	GCCGUUAGGC	CGAA AGCUUCAG	26308
2684	8346	GCUCGACU C ACCCAAUA	7933	UAUUGGGU CUGAUGAG	GCCGUUAGGC	CGAA AGUCGAGC	26309
2692	8338	CACCCAAU A CAUCUCGU	7934	ACGAGAUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGGGUG	26310
2696	8334	CAAUACAU C UCGUGCGU	7935	ACGCACGA CUGAUGAG	GCCGUUAGGC	CGAA AUGUAUUG	26311
2698	8332	AUACAUCU C GUGCGUGG	7936	CCACGCAC CUGAUGAG	GCCGUUAGGC	CGAA AGAUGUAU	26312
2710	8320	CGUGGAAU U CCGUGAGA	7937	UCUCACGG CUGAUGAG	GCCGUUAGGC	CGAA AUUCCACG	26313
2711	8319	GUGGAAU C CGUGAGAG	7938	CUCUCACG CUGAUGAG	GCCGUUAGGC	CGAA AAUCCAC	26314
2725	8305	GAGUGGGU U UCUGACCA	7939	UGGUCAGA CUGAUGAG	GCCGUUAGGC	CGAA ACCCACUC	26315
2726	8304	AGUGGGUU U CUGACCAG	7940	CUGGUCAG CUGAUGAG	GCCGUUAGGC	CGAA AACCCACU	26316
2727	8303	GUGGGUUU C UGACCAGU	7941	ACUGGUCA CUGAUGAG	GCCGUUAGGC	CGAA AAACCCAC	26317
2736	8294	UGACCAGU C CCCCCCA	7942	UGGGGGGG CUGAUGAG	GCCGUUAGGC	CGAA ACUGGUCA	26318
2746	8284	CCCCCAU A CCGCGUU	7943	AACGCCGG CUGAUGAG	GCCGUUAGGC	CGAA AUGGGGGG	26319
2754	8276	ACCGGCGU U GGAGCAGC	7944	GCUGCUCC CUGAUGAG	GCCGUUAGGC	CGAA ACGCCGGU	26320
2764	8266	GAGCAGCU C CAUCUCU	7945	AGAAGAUG CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCUC	26321
2768	8262	AGCUCCAU C UUCUCUAU	7946	AUAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGCU	26322
2770	8260	CUCCAUCU U CCUAUGA	7947	UCAUAGAG CUGAUGAG	GCCGUUAGGC	CGAA AUGAGGAG	26323
2771	8259	UCCAUCUU C UCUAUGAC	7948	GUCAUAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGGA	26324
2773	8257	CAUCUUCU C UAUGACUU	7949	AAGUCAUA CUGAUGAG	GCCGUUAGGC	CGAA AGAAGAUG	26325
2775	8255	UCUUCUCU A UGACUUUC	7950	GAAAGUCA CUGAUGAG	GCCGUUAGGC	CGAA AGAGAAGA	26326
2781	8249	CUAUGACU U UCGCAUG	7951	CAUGCCGA CUGAUGAG	GCCGUUAGGC	CGAA AGUCAUAG	26327
2782	8248	UAUGACUU U CGGCAUGU	7952	ACAUGCCG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAUA	26328
2783	8247	AUGACUUU C GGCAUGUA	7953	UACAUGCC CUGAUGAG	GCCGUUAGGC	CGAA AAAGUCAU	26329
2791	8239	CGGCAUGU A GGGCAGA	7954	UCUGCCCC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGCCG	26330
2806	8224	GAGACCU U CACGAAA	7955	UUUGCGUG CUGAUGAG	GCCGUUAGGC	CGAA AGGUGCUC	26331
2807	8223	AGCACCUU C ACGCAAAA	7956	UUUUGCGU CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGCU	26332
2817	8213	CGCAAAAU U CCGUUGGC	7957	GCCAAGGG CUGAUGAG	GCCGUUAGGC	CGAA AUUUUGCG	26333
2818	8212	GCAAAAUU C CCUUGGCC	7958	GGCCAAGG CUGAUGAG	GCCGUUAGGC	CGAA AAUUUUGC	26334
2822	8208	AAUUCUUU U GGCCUUCG	7959	CGAGGGCC CUGAUGAG	GCCGUUAGGC	CGAA AGGGAAUU	26335
2829	8201	UUGGCCUU C GGUGCAGC	7960	GCUGCACC CUGAUGAG	GCCGUUAGGC	CGAA AGGGCCAA	26336
2842	8188	CAGCCAGU C CUCAACCA	7961	UGGUUGAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGGCUG	26337
2845	8185	CCAGUCCU C AACCAUUU	7962	AAUUGGUU CUGAUGAG	GCCGUUAGGC	CGAA AGGACUGG	26338
2852	8178	UCAACCAU U UCAAGGAC	7963	GUCCUUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGUUGA	26339
2853	8177	CAACCAUU U CAAGGACC	7964	GGUCCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAUGGUUG	26340
2854	8176	AACCAUUU C AAGGACCC	7965	GGGUCCUU CUGAUGAG	GCCGUUAGGC	CGAA AAAUGGUU	26341
2867	8163	ACCGGAU C GUCCUAUG	7966	CAUAGGAC CUGAUGAG	GCCGUUAGGC	CGAA AUUCGGGU	26342
2870	8160	CGAUUCGU C CUAUGCUC	7967	GAGCAUAG CUGAUGAG	GCCGUUAGGC	CGAA ACGAUUCG	26343
2873	8157	AUCGUCCU A UGCUUUC	7968	GAAGAGCA CUGAUGAG	GCCGUUAGGC	CGAA AGGACGAU	26344
2878	8152	CCUAUGCU C UUCAACCU	7969	AGGUUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGCAUAGG	26345
2880	8150	UAUGCUCU U CAACCUCA	7970	UGAGGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCAUA	26346
2881	8149	AUGCUCUU C AACCCAG	7971	CUGAGGUU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGCAU	26347
2887	8143	UUCAACCU C AGCCTUUG	7972	CAAGUGCU CUGAUGAG	GCCGUUAGGC	CGAA AGGUUGAA	26348
2894	8136	UCAGCAU U GACGAGGA	7973	UCCUCGUC CUGAUGAG	GCCGUUAGGC	CGAA AGUGCUGA	26349
2905	8125	CGAGGACU C UCCGAUGU	7974	ACAUCGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUCCUCG	26350
2907	8123	AGGACUCU C CGAUGUCA	7975	UGACAUCG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUCCU	26351
2914	8116	UCCGAUGU C ACAAGGA	7976	UCCUUUGU CUGAUGAG	GCCGUUAGGC	CGAA ACAUCGGA	26352
2929	8101	GAGGGUGU C ACAACACU	7977	AGUGUUGU CUGAUGAG	GCCGUUAGGC	CGAA ACACCCUC	26353
2938	8092	ACAACACU C AGAAGGUC	7978	GACCUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGUGUUGU	26354
2946	8084	CAGAAGGU C UGUAGAAC	7979	GUUCUACA CUGAUGAG	GCCGUUAGGC	CGAA ACCUUCUG	26355
2950	8080	AGGUCUGU A GAACACAU	7980	AUGUGUUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGACCU	26356
2959	8071	GAACACAU C CACUCCAC	7981	GUGGAGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUGUUC	26357
2964	8066	CAUCCACU C CACUCUUC	7982	GAAGAGUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAGU	26358
2969	8061	ACUCCACU C UUCAUGGU	7983	ACCAUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAGU	26359
2971	8059	UCCACUCU U CAUGGUGA	7984	UCACCAUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGGA	26360
2972	8058	CCACUCUU C AUGGUGAC	7985	GUCACCAU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGUGG	26361
2986	8044	GACCAUGU U CCAUCCAU	7986	AUGGAUGG CUGAUGAG	GCCGUUAGGC	CGAA ACAUUGUC	26362
2987	8043	ACAUGUUC C CAUCCAUA	7987	UAUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA AACAUUGU	26363

2991	8039	UGUUGCAU C CAUAACUU	7988	AAGUUAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAACA	26364
2995	8035	CCAUGCAU A ACUUUGCA	7989	UGCAAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUUG	26365
2999	8031	CCAUAACU U UGCACUAG	7990	CUAGUGCA CUGAUGAG	GCCGUUAGGC	CGAA AGUUAUGG	26366
3000	8030	CAUAACUU U GCACUAGU	7991	ACUAGUGC CUGAUGAG	GCCGUUAGGC	CGAA AAGUUAUG	26367
3006	8024	UUUGCACU A GUUGGGGC	7992	GCCCAAC CUGAUGAG	GCCGUUAGGC	CGAA AGUGCAAA	26368
3009	8021	GCACUAGU U GGGGCUCU	7993	AGAGCCCC CUGAUGAG	GCCGUUAGGC	CGAA ACUAGUGC	26369
3016	8014	UUGGGGCU C UUCAUGUC	7994	GACAUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGCCCCAA	26370
3018	8012	GGGGCUCU U CAUGUCCG	7995	CGGACAUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCCCC	26371
3019	8011	GGGCUCUU C AUGUCCGG	7996	CCGGACAU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGCCC	26372
3024	8006	CUUCAUGU C CGGGACCG	7997	CGGUCCCC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGAAG	26373
3037	7993	ACCGCCCU U UGUGUACC	7998	GGUACACA CUGAUGAG	GCCGUUAGGC	CGAA AGGGCGGU	26374
3038	7992	CCGCCCUU U GUGUACCC	7999	GGGUACAC CUGAUGAG	GCCGUUAGGC	CGAA AAGGGCGG	26375
3043	7987	CUUUGUGU A CCCUCUGA	8000	UCAGAGGG CUGAUGAG	GCCGUUAGGC	CGAA ACACAAAG	26376
3048	7982	UGUAACCU C UGACUUUCU	8001	AGAAGUCA CUGAUGAG	GCCGUUAGGC	CGAA AGGGUACA	26377
3054	7976	CUUGACU U CUUGGACU	8002	AGUCCAAG CUGAUGAG	GCCGUUAGGC	CGAA AGUCAGAG	26378
3055	7975	UCUGACTU C UUGGACUC	8003	GAGUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAGA	26379
3057	7973	UGACUUCU U GGACUCUU	8004	AAGAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AGAAGUCA	26380
3063	7967	CUUGGACU C UUUUUUGG	8005	CCAAAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGUCCAAG	26381
3065	7965	UGGACUCU U UUUUGGUU	8006	ACCCAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGAGUCCA	26382
3066	7964	GGACUCUU U UUUGGGUU	8007	AACCCAAA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGUCC	26383
3067	7963	GACUCUUU U UUGGGUUG	8008	CAACCCAA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGUC	26384
3068	7962	ACUCUUUU U UGGGUUGC	8009	GCAACCCA CUGAUGAG	GCCGUUAGGC	CGAA AAAAGAGU	26385
3069	7961	CUCUUUUU U GGGUUGCC	8010	GGCAACCC CUGAUGAG	GCCGUUAGGC	CGAA AAAAGAG	26386
3074	7956	UUUUGGGU U GCCAUUA	8011	UAUAUGGC CUGAUGAG	GCCGUUAGGC	CGAA ACCCAAAA	26387
3080	7950	GUUGCCAU A UAGUAACA	8012	UGUUACUA CUGAUGAG	GCCGUUAGGC	CGAA AUGGCAAC	26388
3082	7948	UGCCAUUA A GUAACACC	8013	GGUGUUAC CUGAUGAG	GCCGUUAGGC	CGAA AUUUGGCA	26389
3085	7945	CAUAUAGU A ACACCAAC	8014	GUUGGUGU CUGAUGAG	GCCGUUAGGC	CGAA ACUAUAUG	26390
3099	7931	AACCGCCU C UCCACAU	8015	AUGUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AGGCGGUU	26391
3101	7929	CCGCUCU U CCACAUCC	8016	GGAUGUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGGCGG	26392
3102	7928	CGCCUCU C CACAUCCA	8017	UGGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAGCG	26393
3108	7922	UCCACAU C CAAGGUCA	8018	UGACUUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGAA	26394
3115	7915	UCCAAGGU C AAUCACUU	8019	AAGUGAUU CUGAUGAG	GCCGUUAGGC	CGAA ACCUUGGA	26395
3119	7911	AGGUCAAU C ACUUUUC	8020	GGAAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUUGACCU	26396
3123	7907	CAUACAU U UCCGACC	8021	GGUCGGAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUUG	26397
3124	7906	AAUCACUU U UCCGACCG	8022	CGGUCGGA CUGAUGAG	GCCGUUAGGC	CGAA AAGUGAUU	26398
3125	7905	AUCACUUU U CCGACCGG	8023	CCGGUCGG CUGAUGAG	GCCGUUAGGC	CGAA AAAGUGAU	26399
3126	7904	UCACUUU C CGACCGGU	8024	ACCGGUCG CUGAUGAG	GCCGUUAGGC	CGAA AAAAGUGA	26400
3135	7895	CGACCGGU U CGAGAAAC	8025	GUUUCUCG CUGAUGAG	GCCGUUAGGC	CGAA ACCGGUCG	26401
3136	7894	GACCGGUU C GAGAAACC	8026	GGUUUCUC CUGAUGAG	GCCGUUAGGC	CGAA AACCGGUC	26402
3146	7884	AGAAACCU C CGUUCGAC	8027	GUCGAACG CUGAUGAG	GCCGUUAGGC	CGAA AGGUUUCU	26403
3150	7880	ACCUCGGU U CGACCAGC	8028	GCUGGUCG CUGAUGAG	GCCGUUAGGC	CGAA ACGGAGGU	26404
3151	7879	CCUCCGUU C GACCAGCC	8029	GGCUGGUC CUGAUGAG	GCCGUUAGGC	CGAA AACGGAGG	26405
3162	7868	CCAGCCAU C UCAGUUUU	8030	AAAACUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGCUUG	26406
3164	7866	AGCCAUUC C AGUUUUGC	8031	GCAAAACU CUGAUGAG	GCCGUUAGGC	CGAA AGAUGGUA	26407
3168	7862	AUCUCAGU U UUGCUGUG	8032	CACAGCAA CUGAUGAG	GCCGUUAGGC	CGAA ACUGAGAU	26408
3169	7861	UCUCAGUU U UGCUGUGC	8033	GCACAGCA CUGAUGAG	GCCGUUAGGC	CGAA AACUGAGA	26409
3170	7860	CUCAGUUU U GCUGUGCC	8034	GGCACAGC CUGAUGAG	GCCGUUAGGC	CGAA AAACUGAG	26410
3182	7848	GUGCCCUU A GAGACUGG	8035	CCAGUCUC CUGAUGAG	GCCGUUAGGC	CGAA AGGGGCAC	26411
3198	7832	GAUGCCCU C CAGUGACA	8036	UGUCACUG CUGAUGAG	GCCGUUAGGC	CGAA AGGGCAUC	26412
3208	7822	AGUGACAU U GCUUCUU	8037	AAGAAGGC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCACU	26413
3213	7817	CAUUGCCU U CUUUCUG	8038	CAGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGGCAAUG	26414
3214	7816	AUUGCCUU C UUUCCUGG	8039	CCAGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AAGGCAAU	26415
3216	7814	UGCCUUCU U UCCUGGCG	8040	CGCCAGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAAGGCA	26416
3217	7813	GCCUUCUU U CCUGGCGU	8041	ACGCCAGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAGGC	26417
3218	7812	CCUUCUUU C CUGGCGUG	8042	CACGCCAG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAAGG	26418
3228	7802	UGGCGUGU U UUGCCGCU	8043	AGCGGCAA CUGAUGAG	GCCGUUAGGC	CGAA ACACGCCA	26419
3229	7801	GGCGUGUU U UGCCGUG	8044	CAGCGCA CUGAUGAG	GCCGUUAGGC	CGAA AACACGCC	26420
3230	7800	GCGUGUUU U GCCGUGA	8045	UCAGCGGC CUGAUGAG	GCCGUUAGGC	CGAA AAACACGC	26421
3244	7786	UGAGCGAU C GACUUCGA	8046	UCGAAGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCGCUCA	26422
3249	7781	GAUCGACU U CGAUGAUG	8047	CAUCAUCG CUGAUGAG	GCCGUUAGGC	CGAA AGUCGAUC	26423
3250	7780	AUCGACUU C GAUGAUGG	8048	CCAUCAUC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCGAU	26424
3262	7768	GAUGGCCU C UUUGCGGU	8049	ACCGCAAA CUGAUGAG	GCCGUUAGGC	CGAA AGGCCAUC	26425

3264	7766	UGGCCUCU U UGCGGUAC	8050	GUACCGCA CUGAUGAG	GCCGUUAGGC	CGAA AGAGGCCA	26426
3265	7765	GGCCUCUU U GCGGUACC	8051	GGUACCGC CUGAUGAG	GCCGUUAGGC	CGAA AAGAGGCC	26427
3271	7759	UUUGCGGU A CCUAGUGA	8052	UCACUAGG CUGAUGAG	GCCGUUAGGC	CGAA ACCGCAAA	26428
3275	7755	CGGUACCU A GUGAACUC	8053	GAGUUCAC CUGAUGAG	GCCGUUAGGC	CGAA AGGUACCG	26429
3283	7747	AGUGAACU C UUCUUUUG	8054	CAAAAGAA CUGAUGAG	GCCGUUAGGC	CGAA AGUUCACU	26430
3285	7745	UGAACUCU U CUUUUGUC	8055	GACAAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUUCA	26431
3286	7744	GAACUCUU C UUUUGUCA	8056	UGACAAA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGUUC	26432
3288	7742	ACUCUUCU U UUGUCAUC	8057	GAUGACAA CUGAUGAG	GCCGUUAGGC	CGAA AGAAGAGU	26433
3289	7741	CUCUUCUU U UGUCAUCU	8058	AGAUGACA CUGAUGAG	GCCGUUAGGC	CGAA AAGAAGAG	26434
3290	7740	UCUUCUUU U GUCAUCUG	8059	CAGAUGAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGAAGA	26435
3293	7737	UCUUUUGU C AUCUGGUU	8060	AACCAGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAAAGA	26436
3296	7734	UUUGUCAU C UGGUUGAG	8061	CUCAACCA CUGAUGAG	GCCGUUAGGC	CGAA AUGACAAA	26437
3301	7729	CAUCUGGU U GAGUCUUU	8062	AAAGACUC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGUUG	26438
3306	7724	GGUUGAGU C UUUUUUUC	8063	GAAAGAAA CUGAUGAG	GCCGUUAGGC	CGAA ACUCAACC	26439
3308	7722	UUGAGUCU U UCUUUCCA	8064	UGGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGACUCAA	26440
3309	7721	UGAGUCUU U CUUCCAA	8065	UUGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGACUCA	26441
3310	7720	GAGUCUUU C UUUCCAAA	8066	UUUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGACUC	26442
3312	7718	GUCUUUCU U UCCAAACC	8067	GGUUUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGAC	26443
3313	7717	UCUUUCUU U CCAAACCU	8068	AGGUUUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGA	26444
3314	7716	CUUUUCUU C CAAACCUC	8069	GAGGUUUG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAAAG	26445
3322	7708	CCAAACCU C UCCCAAGG	8070	CCUUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AGGUUUGG	26446
3324	7706	AAACCUCU C CCAAGGUG	8071	CACCUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAGGUUU	26447
3336	7694	AGGUGCGU C CUUUUGCC	8072	GGCAAAAG CUGAUGAG	GCCGUUAGGC	CGAA ACGCACCU	26448
3339	7691	UGGUGCCU U UUGCCCCA	8073	UGGGGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGGACGCA	26449
3340	7690	GCGUCCUU U UGCCCCAC	8074	GUGGGGCA CUGAUGAG	GCCGUUAGGC	CGAA AAGGACGC	26450
3341	7689	CGUCCUUU U GCCCCACC	8075	GGUGGGGC CUGAUGAG	GCCGUUAGGC	CGAA AAAGGACG	26451
3351	7679	CCCCACCU C UUUUUAGU	8076	AGUAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGGUUGGG	26452
3353	7677	CCACCUCU U UUUAGUCC	8077	GGACUAAA CUGAUGAG	GCCGUUAGGC	CGAA AGAGGUGG	26453
3354	7676	CACCUCUU U UUAGUCCU	8078	AGGACUAA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGGUG	26454
3355	7675	ACCUCUUU U UAGUCCUG	8079	CAGGACUA CUGAUGAG	GCCGUUAGGC	CGAA AAAGAGGU	26455
3356	7674	CCUCUUUU U AGUCCUGG	8080	CCAGGACU CUGAUGAG	GCCGUUAGGC	CGAA AAAAGAGG	26456
3357	7673	CUCUUUUU A GUCCUGGU	8081	ACCAGGAC CUGAUGAG	GCCGUUAGGC	CGAA AAAAGAGG	26457
3360	7670	UUUUUAGU C CUGGUUUU	8082	AAAACCAG CUGAUGAG	GCCGUUAGGC	CGAA ACUAAAAA	26458
3366	7664	GUCCUGGU U UUUCCAUG	8083	CAUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA ACCAGGAC	26459
3367	7663	UCCUGGUU U UCCAUGU	8084	ACAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AACCAGGA	26460
3368	7662	CCUGGUUU U UCCAUGUU	8085	AACAUGGA CUGAUGAG	GCCGUUAGGC	CGAA AAACCAGG	26461
3369	7661	CUGGUUUU U CCAUGUUC	8086	GAACAUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAACCAG	26462
3370	7660	UGGUUUUU C CAUGUUCU	8087	AGAACAUG CUGAUGAG	GCCGUUAGGC	CGAA AAAACCA	26463
3376	7654	UUCCAUGU U CUUAUGA	8088	UCAUAAAG CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGAA	26464
3377	7653	UCCAUGUU C UUUAUGAG	8089	CUCAUAAA CUGAUGAG	GCCGUUAGGC	CGAA AACAUUGA	26465
3379	7651	CAUGUUCU U UAUGAGUG	8090	CACUCAUA CUGAUGAG	GCCGUUAGGC	CGAA AGAACAU	26466
3380	7650	AUGUUCUU U AUGAGUGU	8091	ACACUCAU CUGAUGAG	GCCGUUAGGC	CGAA AAGAACA	26467
3381	7649	UGUUUUU A UGAGUGUC	8092	GACAUCA CUGAUGAG	GCCGUUAGGC	CGAA AACGACA	26468
3389	7641	AUGAGUGU C CAUGUUAU	8093	AUAACAUG CUGAUGAG	GCCGUUAGGC	CGAA ACACUCA	26469
3395	7635	GUCCAUGU U AUGGAUAG	8094	CUAUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGAC	26470
3396	7634	UCCAUGUU A UGGAUAGA	8095	UCUAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AACAUGGA	26471
3402	7628	UUUUGGAU A GACAUGAC	8096	GUCAUGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCAUA	26472
3441	7589	GGCAGAGU C CGAUGGCA	8097	UGCCAUCG CUGAUGAG	GCCGUUAGGC	CGAA ACUCUGCC	26473
3452	7578	AUGGCAGU U GUUGCGUU	8098	AACGCAAC CUGAUGAG	GCCGUUAGGC	CGAA ACUGCCAU	26474
3455	7575	GCAGUUGU U GCGUCCA	8099	UGGAACGC CUGAUGAG	GCCGUUAGGC	CGAA ACAACUGC	26475
3460	7570	UGUUGCGU U CCAAACAG	8100	CUGUUUGG CUGAUGAG	GCCGUUAGGC	CGAA ACGCAACA	26476
3461	7569	GUUGCGUU C CAAACAGA	8101	UCUGUUUG CUGAUGAG	GCCGUUAGGC	CGAA AACGCAAC	26477
3473	7557	ACAGAGCU U GCUCCAUT	8102	AAUGGAGC CUGAUGAG	GCCGUUAGGC	CGAA AGCUCUGU	26478
3477	7553	AGCUUGCU C CAUUCUCC	8103	GGAGAAUG CUGAUGAG	GCCGUUAGGC	CGAA AGCAAGCU	26479
3481	7549	UGCUCUUA U CUCCAAA	8104	UUUGGGAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGCA	26480
3482	7548	GCUCUUAU C UCCCAAAG	8105	CUUUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AAUGGAGC	26481
3484	7546	UCCAUCU C CCAAAGCG	8106	GCUUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUGGA	26482
3494	7536	CAAAGCGU C ACCGUGC	8107	CGAGCGU CUGAUGAG	GCCGUUAGGC	CGAA ACGCUUUG	26483
3512	7518	GCCGUGAU C AAAAUUCC	8108	GGAAUUUU CUGAUGAG	GCCGUUAGGC	CGAA AUCACGGC	26484
3518	7512	AUCAAUUU U CCGGCUUC	8109	GAAGCCGG CUGAUGAG	GCCGUUAGGC	CGAA AUUUUGAU	26485
3519	7511	UCAAAUUU C CGGCUUCU	8110	AGAAGCCG CUGAUGAG	GCCGUUAGGC	CGAA AAUUUGA	26486
3525	7505	UUCGCGCU U CUCGUACU	8111	AGUACGAG CUGAUGAG	GCCGUUAGGC	CGAA AGCCGGAA	26487

3526	7504	UCCGGCUCU C UCGUACUG	8112	CAGUACGA CUGAUGAG	GCCGUUAGGC	CGAA AAGCCGGA	26488
3528	7502	CGGCUUCU C GUACUGUC	8113	GACAGUAC CUGAUGAG	GCCGUUAGGC	CGAA AGAAGCCG	26489
3531	7499	CUUCUCGU A CUGUCUUC	8114	GAAGACAG CUGAUGAG	GCCGUUAGGC	CGAA ACAGAGAAG	26490
3536	7494	CGUACUGU C UUCACAGA	8115	UCUGUGAA CUGAUGAG	GCCGUUAGGC	CGAA ACAGUACG	26491
3538	7492	UACUGUCU U CACAGACG	8116	CGUCUGUG CUGAUGAG	GCCGUUAGGC	CGAA AGACAGUA	26492
3539	7491	ACUGUCUU C ACAGACGG	8117	CCGUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AAGACAGU	26493
3550	7480	AGACGGGU U CACUACUA	8118	UAGUAGUG CUGAUGAG	GCCGUUAGGC	CGAA ACCCGUCU	26494
3551	7479	GACGGGUU C ACUACUAC	8119	GUAGUAGU CUGAUGAG	GCCGUUAGGC	CGAA AACCUGUC	26495
3555	7475	GGUUCACU A CUACUGCA	8120	UGCAGUAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGAACG	26496
3558	7472	UCACUACU A CUGCAGCU	8121	AGCUGCAG CUGAUGAG	GCCGUUAGGC	CGAA AGUAGUGA	26497
3567	7463	CUGCAGCU A GAGACACC	8122	GGUGUCUC CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCAG	26498
3581	7449	ACCAAGAU C AGCAUGAU	8123	AUCAUGCU CUGAUGAG	GCCGUUAGGC	CGAA AUCUUGGU	26499
3590	7440	AGCAUGAU C UGUCCAAC	8124	GUUGGACA CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGCU	26500
3594	7436	UGAUCUGU C CAACUUUC	8125	GAAAGUUG CUGAUGAG	GCCGUUAGGC	CGAA ACAGAUCA	26501
3600	7430	GUCCAACU U UCUCUGC	8126	GCAGAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGUUGGAC	26502
3601	7429	UCCAACUU U CUUCUGCA	8127	UGCAGAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGUUGGA	26503
3602	7428	CCAACUUU C UUCUGCAU	8128	AUGCAGAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGUUGG	26504
3604	7426	AACUUUCU U CUGCAUGA	8129	UCAUGCAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGUU	26505
3605	7425	ACUUUCUU C UGCAUGAU	8130	AUCAUGCA CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGU	26506
3628	7402	GGUGCGCU C UAAUUCUG	8131	CAGAAUUA CUGAUGAG	GCCGUUAGGC	CGAA AGCGCACC	26507
3630	7400	UGCGUCUC A AUUCUGGG	8132	CCGUAUAU CUGAUGAG	GCCGUUAGGC	CGAA AGAGCGCA	26508
3633	7397	GCUCUAAU U CUGGGACG	8133	CGUCCAG CUGAUGAG	GCCGUUAGGC	CGAA AUUAGAGC	26509
3634	7396	CUCUAAU C UGGGACGU	8134	ACGUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUUAAGAG	26510
3643	7387	UGGGACGU C CGUGGCCA	8135	UGGCCACG CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCCA	26511
3661	7369	GAUGCCAU C CACUACAG	8136	CUGUAGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGCAUC	26512
3666	7364	CAUCCACU A CAGCGUUC	8137	GAACGUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAUG	26513
3673	7357	UACAGCGU U CUUCAUGA	8138	UCAUGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACGCUGUA	26514
3674	7356	ACAGCGUU C UUCAUGAU	8139	AUCAUGAA CUGAUGAG	GCCGUUAGGC	CGAA AACGUGU	26515
3676	7354	AGCGUUCU U CAUGAUUC	8140	GAAUCAUG CUGAUGAG	GCCGUUAGGC	CGAA AGAAGUCU	26516
3677	7353	UCGUUCUU C AUGAUUCC	8141	GGAAUCAU CUGAUGAG	GCCGUUAGGC	CGAA AAGAAGCG	26517
3683	7347	UUAUGAU U CCGGCCGC	8142	GCGGCCCG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGAA	26518
3684	7346	UCAUGAUU C CGGCCGCU	8143	AGCGGCCG CUGAUGAG	GCCGUUAGGC	CGAA AAUCAUGA	26519
3695	7335	GCGCGUGU C CGCGCUG	8144	CAGCGCG CUGAUGAG	GCCGUUAGGC	CGAA ACAGCGGC	26520
3716	7314	GAGCGCAU U GCCUCAGC	8145	GCUGAGGC CUGAUGAG	GCCGUUAGGC	CGAA AUGCGCUC	26521
3721	7309	CAUUGCCU C AGCUUGCC	8146	GGCAAGCU CUGAUGAG	GCCGUUAGGC	CGAA AGGCAAUG	26522
3726	7304	CCUCAGCU U GCCAACCG	8147	CGGUUGGC CUGAUGAG	GCCGUUAGGC	CGAA AGCUGAGG	26523
3745	7285	AACCAUGU A GGCAUAGU	8148	ACUAUGCC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGUU	26524
3751	7279	GUAGGCAU A GUGGCAA	8149	UUUGCCAC CUGAUGAG	GCCGUUAGGC	CGAA AUGCCUAC	26525
3770	7260	AGGAGUGU U GCCGCUGU	8150	ACAGCGGC CUGAUGAG	GCCGUUAGGC	CGAA ACACUCCU	26526
3779	7251	GCCGCUGU U ACCGUAAC	8151	GUUACGGU CUGAUGAG	GCCGUUAGGC	CGAA ACAGCGGC	26527
3780	7250	CCGCUGUU A CCGUAACG	8152	CGUUAACG CUGAUGAG	GCCGUUAGGC	CGAA AACAGCGG	26528
3785	7245	GUUACCGU A ACGGUGAG	8153	CUCACCGU CUGAUGAG	GCCGUUAGGC	CGAA ACGGUAAC	26529
3801	7229	GGGUGACU U GUCCCCAG	8154	CUGGGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGUCACCC	26530
3804	7226	UGACUUGU C CCCAGCAU	8155	AUGCUGGC CUGAUGAG	GCCGUUAGGC	CGAA ACAAGUCA	26531
3813	7217	CCCAGCAU C CGCGUGCU	8156	AGCAGCCG CUGAUGAG	GCCGUUAGGC	CGAA AUGCUGGG	26532
3822	7208	CGCGUGCU A GCAGGAGA	8157	UCUCCUGC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGCCG	26533
3840	7190	CCGACACU C CAACAUCG	8158	CGAUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCGG	26534
3847	7183	UCCAACAU C GACGAAGG	8159	CCUUCGUC CUGAUGAG	GCCGUUAGGC	CGAA AUGUUGGA	26535
3864	7166	GGAGGCCU C GCGCGAGU	8160	ACUCGCGC CUGAUGAG	GCCGUUAGGC	CGAA AGGCUUCC	26536
3879	7151	GUGUGAAU A GUGCACUU	8161	AAGUGCAC CUGAUGAG	GCCGUUAGGC	CGAA AUUCACAC	26537
3887	7143	AGUGCACU U GCCUGAAC	8162	GUUCAGGC CUGAUGAG	GCCGUUAGGC	CGAA AGUGCACU	26538
3898	7132	CUGAACGU U UAUGAGG	8163	CCUCAUA CUGAUGAG	GCCGUUAGGC	CGAA ACGUUCAG	26539
3899	7131	UGAACGUU U AUUGAGGU	8164	ACCUCAAU CUGAUGAG	GCCGUUAGGC	CGAA AACGUUCA	26540
3900	7130	GAACGUUU A UUGAGGUC	8165	GACCUCAA CUGAUGAG	GCCGUUAGGC	CGAA AAACGUUC	26541
3902	7128	ACGUUUUAU U GAGGUCAA	8166	UUGACCUC CUGAUGAG	GCCGUUAGGC	CGAA AUAAACGU	26542
3908	7122	AUUGAGGU C AAUGAGGU	8167	ACCUCAU CUGAUGAG	GCCGUUAGGC	CGAA ACCUCAU	26543
3919	7111	UGAGGUGU U GAUGUAAU	8168	AUUACAUC CUGAUGAG	GCCGUUAGGC	CGAA ACACCUCA	26544
3925	7105	GUUGAUGU A AUCUGACG	8169	CGUCAGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAUCAAC	26545
3928	7102	GAUGUAAU C UGACGUGA	8170	UCACGUA CUGAUGAG	GCCGUUAGGC	CGAA AUUACAUC	26546
3938	7092	GAGGUGAU C AAUUGCUU	8171	AAGCAUU CUGAUGAG	GCCGUUAGGC	CGAA AUCAGUUC	26547
3946	7084	CAAUUGCU U UAGCAGUG	8172	CACUGCUA CUGAUGAG	GCCGUUAGGC	CGAA AAGAUUUG	26548
3947	7083	AAUUGCUU U AGCAGUGG	8173	CCACUGCU CUGAUGAG	GCCGUUAGGC	CGAA AAGCAUUU	26549

Table VIII

3948	7082	AAUGCUU A GCAGUGGA	8174	UCCACUGC CUGAUGAG	GCCGUUAGGC	CGAA AAAGCAUU	26550
3971	7059	ACCGCUGU U GUCACAGC	8175	GCUGUGAC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCGGU	26551
3974	7056	GCUGUUGU C ACAGCGUA	8176	UACGCUGU CUGAUGAG	GCCGUUAGGC	CGAA ACAACAGC	26552
3982	7048	CACAGCGU A CAGUGACC	8177	GGUCACUG CUGAUGAG	GCCGUUAGGC	CGAA ACGCUGUG	26553
3998	7032	CAGGCUGU U GCCGGCCU	8178	AGGCCGGC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCUG	26554
4007	7023	GCCGGCCU C AAGUCCAA	8179	UUGGACUU CUGAUGAG	GCCGUUAGGC	CGAA AGGCCGGC	26555
4012	7018	CCUCAAGU C CAAAAGAA	8180	UUCUUUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUUGAGG	26556
4024	7006	AAGAAACU C UCCCAUGC	8181	GCAUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUUUCUU	26557
4026	7004	GAAACUCU C CCAUGCUG	8182	CAGCAUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUUUC	26558
4039	6991	GCUGAAAU U CUCCUUGA	8183	UCAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AUUUCAGC	26559
4040	6990	CUGAAAUU C UCCUUGAC	8184	GUCAAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAUUCAG	26560
4042	6988	GAAAUUCU C CUUGACCU	8185	AGGUCAAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUUUC	26561
4045	6985	AUUCUCCU U GACCUCAA	8186	UUGAGGUC CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAAU	26562
4051	6979	CUUGACCU C AAUUCUUU	8187	AAAGAAUU CUGAUGAG	GCCGUUAGGC	CGAA AGGUCAAG	26563
4055	6975	ACCUCAAU U CUUUGCCC	8188	GGGCAAG CUGAUGAG	GCCGUUAGGC	CGAA AUUGAGGU	26564
4056	6974	CCUCAAUU C UUUGCCCA	8189	UGGGCAAA CUGAUGAG	GCCGUUAGGC	CGAA AAUUGAGG	26565
4058	6972	UCAAUUCU U UGCCCCAA	8190	UUUGGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGAAUUGA	26566
4059	6971	CAAUUCUU U GCCCAAAC	8191	GUUUGGGC CUGAUGAG	GCCGUUAGGC	CGAA AAGAAUUG	26567
4076	6954	AAACUGCU U AUGUCACU	8192	AGUGACAU CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUUU	26568
4077	6953	AACUGCUU A UGUCACUC	8193	GAGUGACA CUGAUGAG	GCCGUUAGGC	CGAA AAGCAGUU	26569
4081	6949	GCUUAUGU C ACUCUUGG	8194	CCAAGAGU CUGAUGAG	GCCGUUAGGC	CGAA ACAUAAGC	26570
4085	6945	AUGUCACU C UUGGUCUU	8195	AAGACCAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGACAU	26571
4087	6943	GUCACUCU U GGUCUUAU	8196	AUAAGACC CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGAC	26572
4091	6939	CUCUUGGU C UUAUCUAG	8197	CUAGAUA CUGAUGAG	GCCGUUAGGC	CGAA ACCAAGAG	26573
4093	6937	CUUGGUCU U AUCUAGCC	8198	GGCUAGAU CUGAUGAG	GCCGUUAGGC	CGAA AGACCAAG	26574
4094	6936	UUGGUCUU A UCUGACCA	8199	UGGCUAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGACCAA	26575
4096	6934	GGUCUUAU C UAGCCAAC	8200	GUUGGCUA CUGAUGAG	GCCGUUAGGC	CGAA AUAAGACC	26576
4098	6932	UCUUAUCU A GCCAACCC	8201	GGUUGGCC CUGAUGAG	GCCGUUAGGC	CGAA AGAUAGA	26577
4109	6921	CAACCCAU C UCGUUGGC	8202	GCCAACGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGGUUG	26578
4111	6919	ACCCAUCU C GUUGGCUG	8203	CAGCCAAC CUGAUGAG	GCCGUUAGGC	CGAA AGAUGGGU	26579
4114	6916	CAUCUCGU U GGCUGCCA	8204	UGGCAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACGAGAUG	26580
4130	6900	ACUGCUGU C ACAAGGGU	8205	ACCCUUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCGCAGU	26581
4139	6891	ACAAGGGU C AUGACACA	8206	UGUGUCAU CUGAUGAG	GCCGUUAGGC	CGAA ACCCUUGU	26582
4151	6879	ACACAAAU C AGGAACAC	8207	GUGUUCU CUGAUGAG	GCCGUUAGGC	CGAA AUUUGUGU	26583
4164	6866	ACACGGCU A GCUGGUUG	8208	CAACCAGC CUGAUGAG	GCCGUUAGGC	CGAA AGCCGUGU	26584
4171	6859	UAGCUGGU U GUCUGUCU	8209	AGACAGAC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGCUA	26585
4174	6856	CUGGUUGU C UGUCUGCG	8210	CGCAGACA CUGAUGAG	GCCGUUAGGC	CGAA ACAACCAG	26586
4178	6852	UUGUCUGU C UGCGAACG	8211	CGUUCGCA CUGAUGAG	GCCGUUAGGC	CGAA ACAGACAA	26587
4188	6842	CGGAACGU U GCUUCUCU	8212	AGAGAAGC CUGAUGAG	GCCGUUAGGC	CGAA ACGUUCGC	26588
4192	6838	ACGUUGCU U CUCUGGCU	8213	AGCCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGCAACGU	26589
4193	6837	CGUUGCUU C UCUGGCUC	8214	GAGCCAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGCAACG	26590
4195	6835	UUGCUUCU C UGGCUCAG	8215	CUGAGCCA CUGAUGAG	GCCGUUAGGC	CGAA AGAAGCAA	26591
4201	6829	CUCUGGCU C AGGAAUUA	8216	UAAUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGCCAGAG	26592
4208	6822	UCAGGAU U AGCACA AU	8217	AUUGUGCU CUGAUGAG	GCCGUUAGGC	CGAA AUUCCUGA	26593
4209	6821	CAGGAUU A GCACAAUC	8218	GAUUGUGC CUGAUGAG	GCCGUUAGGC	CGAA AAUCCUG	26594
4217	6813	AGCACA AU C AUCAAGAG	8219	CUCUUGAU CUGAUGAG	GCCGUUAGGC	CGAA AUUGUCU	26595
4220	6810	ACAAUCAU C AAGAGAAG	8220	CUUCUCU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUUGU	26596
4244	6786	AGCAACAU U CCGCGAU	8221	AUCGCCG CUGAUGAG	GCCGUUAGGC	CGAA AUGUUGCU	26597
4245	6785	GCAACA AU C CGGCGAUC	8222	GAUCGCCG CUGAUGAG	GCCGUUAGGC	CGAA AAUGUUGC	26598
4253	6777	CGGCGAU C UUCGUUCC	8223	GGAACGAA CUGAUGAG	GCCGUUAGGC	CGAA AUCGCCG	26599
4255	6775	GCGAUCU U CGUUCUG	8224	CAGGAACG CUGAUGAG	GCCGUUAGGC	CGAA AGAUCGCC	26600
4256	6774	GCGAUCU C GUUCCUG	8225	CCAGGAAC CUGAUGAG	GCCGUUAGGC	CGAA AAGAUCGC	26601
4259	6771	AUCUUCGU U CCUGGAAC	8226	GUUCCAG CUGAUGAG	GCCGUUAGGC	CGAA ACGAAGAU	26602
4260	6770	UCUUCGUU C CUGGAACU	8227	AGUUCAG CUGAUGAG	GCCGUUAGGC	CGAA AACGAAGA	26603
4269	6761	CUGGAACU U CAGCCAUC	8228	GAUUGCUG CUGAUGAG	GCCGUUAGGC	CGAA AGUUCAG	26604
4270	6760	UGGAACU C AGCCAUC	8229	GGAUGGCU CUGAUGAG	GCCGUUAGGC	CGAA AAGUCCA	26605
4277	6753	UCAGCCAU C CAACAGAA	8230	UUCUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGCUGA	26606
4292	6738	AAAAGGU C GCGACUCC	8231	GGAGUCGC CUGAUGAG	GCCGUUAGGC	CGAA ACCUUUU	26607
4299	6731	UCGCGACU C CCAAGACA	8232	UGUCUUG CUGAUGAG	GCCGUUAGGC	CGAA AGUCGCGA	26608
4314	6716	CAGCGCCU C CCAAACCU	8233	AGGUUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGCGCUG	26609
4323	6707	CCAAACCU A UCUUCCA	8234	UGGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGGUUUG	26610
4325	6705	AAACCUAU C UUCCA AU	8235	AUUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AUAGGUU	26611

4327	6703	ACCUAUCU U UCCAAUGC	8236	GCAUUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAUAGGU	26612
4328	6702	CCUAUCUU U CCAUUGCC	8237	GGCAUUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUAAG	26613
4329	6701	CUAUCUUU C CAAUGCCC	8238	GGGCAUUG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAUAG	26614
4339	6691	AAUGCCCU U CCGCUGCA	8239	UGCAGCGG CUGAUGAG	GCCGUUAGGC	CGAA AGGGCAUU	26615
4340	6690	AUGCCCUU C CGCUGCAU	8240	AUGCAGCG CUGAUGAG	GCCGUUAGGC	CGAA AAGGGCAU	26616
4362	6668	GGAAAGAU A CUCCCAUG	8241	CAUGGGAG CUGAUGAG	GCCGUUAGGC	CGAA AUUCUUC	26617
4365	6665	AGAAUACU C CCAUGGUC	8242	GACCAUGG CUGAUGAG	GCCGUUAGGC	CGAA AGUAUUCU	26618
4373	6657	CCCAUGGU C AUCACACU	8243	AGUGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACCAUGGG	26619
4376	6654	AUGGUCAU C ACACUCAA	8244	UUGAGUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGACCAU	26620
4382	6648	AUCACACU C AAUAAGGC	8245	GCCUUAUU CUGAUGAG	GCCGUUAGGC	CGAA AGUGUGAU	26621
4386	6644	CACUCAAU A AGGCAAUC	8246	GAUUGCCU CUGAUGAG	GCCGUUAGGC	CGAA AUUGAGUG	26622
4394	6636	AAGGCAAU C AAGGCAAU	8247	AUUGCCUU CUGAUGAG	GCCGUUAGGC	CGAA AUUGCCUU	26623
4403	6627	AAGGCAAU U GUCUGAAG	8248	CUUCAGAC CUGAUGAG	GCCGUUAGGC	CGAA AUUGCCUU	26624
4406	6624	GCAAUUGU C UGAAGAGC	8249	GCUCUUCA CUGAUGAG	GCCGUUAGGC	CGAA ACAAUUGC	26625
4417	6613	AAGAGCAU C UGGCAGUU	8250	AACUGCCA CUGAUGAG	GCCGUUAGGC	CGAA AUGCUCUU	26626
4425	6605	CUGGCAGU U CCUCCAGG	8251	CCUGGAGG CUGAUGAG	GCCGUUAGGC	CGAA ACUGCCAG	26627
4426	6604	UGGCAGUU C CUCCAGGG	8252	CCCUGGAG CUGAUGAG	GCCGUUAGGC	CGAA AACUGCCA	26628
4429	6601	CAGUUCUU C CAGGGCCA	8253	UGGCCUG CUGAUGAG	GCCGUUAGGC	CGAA AGGAACUG	26629
4439	6591	AGGGCCAU U CUGUGAGC	8254	GCUCACAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGCCCU	26630
4440	6590	GGGCCAUU C UGUGAGCU	8255	AGCUCACA CUGAUGAG	GCCGUUAGGC	CGAA AAUGGCC	26631
4449	6581	UGUGAGCU C UUCUCCU	8256	AGGAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AGCUCACA	26632
4451	6579	UGAGCUCU U CCUCUUU	8257	AAAGGAGG CUGAUGAG	GCCGUUAGGC	CGAA AGCUCUCA	26633
4452	6578	GAGCUCUU C CUCCUUUC	8258	GAAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGAGCUC	26634
4455	6575	CUCUUCUU C CUUCUCU	8259	AGAGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAAGAG	26635
4458	6572	UUCUCCUU U UCUCUGCA	8260	UGCAGAGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGAA	26636
4459	6571	UCCUCCUU U CUCUGCAG	8261	CUCGAGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGGA	26637
4460	6570	CCUCCUUU C UCUGCAGU	8262	ACUGCAGA CUGAUGAG	GCCGUUAGGC	CGAA AAAGGAGG	26638
4462	6568	UCCUUUCU C UGCAGUGG	8263	CCACUGCA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGGA	26639
4480	6550	CACAACGU A CAUGGUGU	8264	ACACCAUG CUGAUGAG	GCCGUUAGGC	CGAA ACGUUGUG	26640
4489	6541	CAUGUGU C AAGUGCUU	8265	AAGCAUUC CUGAUGAG	GCCGUUAGGC	CGAA ACACCAUG	26641
4497	6533	CAAGUGCU U CCAUGUC	8266	GACAUGGG CUGAUGAG	GCCGUUAGGC	CGAA AGCACUUG	26642
4498	6532	AAGUGCUU C CCAUGUCU	8267	AGACAUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGCACUU	26643
4505	6525	UCCCAUGU C UUCCCCAU	8268	AUGGGGAA CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGGA	26644
4507	6523	CAUGUCU U CCCAUGA	8269	UCAUGGGG CUGAUGAG	GCCGUUAGGC	CGAA AGACAUGG	26645
4508	6522	CAUGUCUU C CCCAUGAA	8270	UUCAUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGACAUG	26646
4522	6508	GAAGUGCU C AGGCAUCU	8271	AGAUGCCU CUGAUGAG	GCCGUUAGGC	CGAA AGCACTUC	26647
4529	6501	UCAGGCAU C UUUCCAG	8272	CUGGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AUGCCUGA	26648
4531	6499	AGGCAUCU U UCCAGAA	8273	UUCUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAUGCCU	26649
4532	6498	GGCAUCUU U CCCAGAAC	8274	GUUCUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGCC	26650
4533	6497	GCAUCUUU C CCAGAACC	8275	GGUUCUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAUGC	26651
4543	6487	CAGAACCU C AAUGAGCC	8276	GGCUCAUU CUGAUGAG	GCCGUUAGGC	CGAA AGGUUCUG	26652
4554	6476	UGAGCCCU A UCUGAGAA	8277	UUCUCAGA CUGAUGAG	GCCGUUAGGC	CGAA AGGGCUCA	26653
4556	6474	AGCCCUAU C UGAGAACG	8278	CGUUCUCA CUGAUGAG	GCCGUUAGGC	CGAA AUAGGGCU	26654
4566	6464	GAGAACGU U UUCCCGAG	8279	CUCCGGAA CUGAUGAG	GCCGUUAGGC	CGAA ACGUUCUC	26655
4567	6463	AGAACGUU U UCCCGAGG	8280	CCUCGGGA CUGAUGAG	GCCGUUAGGC	CGAA AACGUUCU	26656
4568	6462	GAACGUUU U CCCGAGGC	8281	CGCCUCGG CUGAUGAG	GCCGUUAGGC	CGAA AAACGUUC	26657
4569	6461	AACGUUUU C CCGAGGCG	8282	CGCCUCGG CUGAUGAG	GCCGUUAGGC	CGAA AAAACGUU	26658
4582	6448	GGCGAAGU C CUUGAACG	8283	CGUUCAG CUGAUGAG	GCCGUUAGGC	CGAA ACUUCGCC	26659
4585	6445	GAAGUCCU U GAACGCCU	8284	AGGCGUUC CUGAUGAG	GCCGUUAGGC	CGAA AGGACUUC	26660
4594	6436	GAACGCCU U UAGUGCCU	8285	AGGCACUA CUGAUGAG	GCCGUUAGGC	CGAA AGGCGUUC	26661
4595	6435	AACGCCUU U AGUGCCUG	8286	CAGGCACU CUGAUGAG	GCCGUUAGGC	CGAA AAGGCGUU	26662
4596	6434	ACGCCUUU A GUGCCUGG	8287	CCAGGCAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGGCGU	26663
4609	6421	UUGGUGAU C CGAGUACA	8288	UGUACUCG CUGAUGAG	GCCGUUAGGC	CGAA AUCACGAG	26664
4615	6415	AUCCGAGU A CACCCUGG	8289	CCAGGGUG CUGAUGAG	GCCGUUAGGC	CGAA ACUCGGAU	26665
4627	6403	CCUGGCGU C AAUCCAGC	8290	GCUGGAUU CUGAUGAG	GCCGUUAGGC	CGAA ACGCCAGG	26666
4631	6399	GGGUCAAU C CAGCGCGG	8291	CCGCGCUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGACGC	26667
4643	6387	CGCGGCCU C AGAAUCUU	8292	AAGAUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGGCGCG	26668
4649	6381	CUCAGAAU C UUCUUUUC	8293	GAAAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGAG	26669
4651	6379	CAGAAUCU U CCUUUCAC	8294	GUGAAAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAUUCUG	26670
4652	6378	AGAAUCUU C CUUUCACC	8295	GGUGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUCU	26671
4655	6375	AUCUCCU U UCACCAAG	8296	CUUGGUGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAAGAU	26672
4656	6374	UCUUCUUU U CACCAAGC	8297	GCUUGGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAAGA	26673

Table VIII

4657	6373	CUUCCUUU C ACCAAGCU	8298	AGCUUGGU CUGAUGAG	GCCGUUAGGC	CGAA AAAGGAAG	26674
4666	6364	ACCAAGCU U CGUGAUGA	8299	UCAUCACG CUGAUGAG	GCCGUUAGGC	CGAA AGCUUGGU	26675
4667	6363	CCAAGCUU C GUGAUGAC	8300	GUCAUCAC CUGAUGAG	GCCGUUAGGC	CGAA AAGCUUGG	26676
4677	6353	UGAUGACU U CCACUUCG	8301	CGAAGUGG CUGAUGAG	GCCGUUAGGC	CGAA AGUCAUCA	26677
4678	6352	GAUGACUU C CACUUCGU	8302	ACGAAGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAUC	26678
4683	6347	CUUCCACU U CGUUGUUG	8303	CAACAACG CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAAG	26679
4684	6346	UUCCACUU C GUUGUUGU	8304	ACAACAAC CUGAUGAG	GCCGUUAGGC	CGAA AAGUGGAA	26680
4687	6343	CACUUCGU U GUUGUCUU	8305	AAGACAAC CUGAUGAG	GCCGUUAGGC	CGAA ACGAAGUG	26681
4690	6340	UUCGUUGU U GUCUUCUA	8306	UAGAAGAC CUGAUGAG	GCCGUUAGGC	CGAA ACAACGAA	26682
4693	6337	GUUGUUGU C UUCUAAAA	8307	UUUUAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACAACAAC	26683
4695	6335	UGUUGUCU U CUAAAAUU	8308	AAUUUAG CUGAUGAG	GCCGUUAGGC	CGAA AGACAACA	26684
4696	6334	GUUGUCUU C UAAAAUUG	8309	CAAUUUUA CUGAUGAG	GCCGUUAGGC	CGAA AAGACAAC	26685
4698	6332	UGUCUUCU A AAUUGUG	8310	CACAAUUU CUGAUGAG	GCCGUUAGGC	CGAA AGAAGACA	26686
4703	6327	UCUAAAAU U GUGUUUGU	8311	ACAAACAC CUGAUGAG	GCCGUUAGGC	CGAA AUUUUAGA	26687
4708	6322	AAUUGUGU U UGUCCUAG	8312	CUAGGACA CUGAUGAG	GCCGUUAGGC	CGAA AACAAUUU	26688
4709	6321	AUUGUGUU U GUCCUAGG	8313	CCUAGGAC CUGAUGAG	GCCGUUAGGC	CGAA AACACAAU	26689
4712	6318	GUGUUUGU C CUAGGACC	8314	GGUCCUAG CUGAUGAG	GCCGUUAGGC	CGAA ACAACACAC	26690
4715	6315	UUUGUCCU A GGACCAUC	8315	GAUGGUCC CUGAUGAG	GCCGUUAGGC	CGAA AGGACAAA	26691
4723	6307	AGGACCAU C AAAGCACC	8316	GGUGCUUU CUGAUGAG	GCCGUUAGGC	CGAA AUGGUCCU	26692
4736	6294	CACCACCU C CGGUCGUG	8317	CACGACCG CUGAUGAG	GCCGUUAGGC	CGAA AGGUGGUG	26693
4741	6289	CCUCCGGU C GUGGUAUG	8318	CAUACCAC CUGAUGAG	GCCGUUAGGC	CGAA ACCGGAGG	26694
4747	6283	GUCGUGGU A UGACACTC	8319	GAGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA ACCACGAC	26695
4755	6275	AUGACACU C CAGCCGCU	8320	AGCGGCUG CUGAUGAG	GCCGUUAGGC	CGAA AGGUGCAU	26696
4771	6259	UGCAACCU U GUAAGCCA	8321	AGGCUUAC CUGAUGAG	GCCGUUAGGC	CGAA AGGUUGCA	26697
4774	6256	AACCUUGU A AGCCAGCC	8322	GGCUGGCU CUGAUGAG	GCCGUUAGGC	CGAA ACAAGGUT	26698
4795	6235	UGGCAGAU C UGCAGUCC	8323	GGACUGCA CUGAUGAG	GCCGUUAGGC	CGAA AUCUGCCA	26699
4802	6228	UCUGCAGU C CUCAACAG	8324	CUGUUGAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGCAGA	26700
4805	6225	GCAGUCCU C AACAGUUC	8325	GAACUGUU CUGAUGAG	GCCGUUAGGC	CGAA AGGACUGC	26701
4812	6218	UCAACAGU U CCAGAAAG	8326	CUUUCUGG CUGAUGAG	GCCGUUAGGC	CGAA ACUGUUGA	26702
4813	6217	CAACAGUU C CAGAAAGU	8327	ACUUUCUG CUGAUGAG	GCCGUUAGGC	CGAA AACUCUUG	26703
4822	6208	CAGAAAGU U UUUUCUCU	8328	AGAGAAAA CUGAUGAG	GCCGUUAGGC	CGAA ACUUUCUG	26704
4823	6207	AGAAAGUU U UUCUCUCU	8329	GAGAGAAA CUGAUGAG	GCCGUUAGGC	CGAA AACUUUCU	26705
4824	6206	GAAAGUUU U UUCUCUCU	8330	AGAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AAACUUUC	26706
4825	6205	AAAGUUUU U UCUCUCUU	8331	AAGAGAGA CUGAUGAG	GCCGUUAGGC	CGAA AAAACUUU	26707
4826	6204	AAGUUUUU U CUCUCUUC	8332	GAAGAGAG CUGAUGAG	GCCGUUAGGC	CGAA AAAAACUU	26708
4827	6203	AGUUUUUU C UCUCUUCU	8333	AGAAGAGA CUGAUGAG	GCCGUUAGGC	CGAA AAAAAACU	26709
4829	6201	UUUUUUUU C UCUCUCCU	8334	GGAGAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAAAA	26710
4831	6199	UUUUCUCU C UUCUCCUC	8335	GAGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AGAGAAAA	26711
4833	6197	UUCUCUCU C UCCUCUG	8336	CAGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAGAGAA	26712
4834	6196	UCUCUCUU C UCCUCUGA	8337	UCAGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGAGA	26713
4836	6194	UCUCUUCU C UCUGAGC	8338	GCUCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAGAGA	26714
4839	6191	CUUCUCCU C UGAGCCGG	8339	CCGGCUCA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAAG	26715
4849	6181	GAGCCGGU A UUCCCAU	8340	AUGGGGAA CUGAUGAG	GCCGUUAGGC	CGAA ACCGGCUC	26716
4851	6179	GCCGGUAAU U CCCAUCC	8341	GGAUGGGG CUGAUGAG	GCCGUUAGGC	CGAA AUACCGGC	26717
4852	6178	CCGGUAAU C CCCAUCCA	8342	UGGAUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAUACCGG	26718
4858	6172	UUCCCAU C CAUGGUAA	8343	AUACCAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGGGAA	26719
4865	6165	UCCAUGGU A UAUACCUU	8344	AAGGUAAU CUGAUGAG	GCCGUUAGGC	CGAA ACCAUGGA	26720
4867	6163	CAUGGUAA A UACCUUCU	8345	AGAAGGUA CUGAUGAG	GCCGUUAGGC	CGAA AUACCAUG	26721
4869	6161	UGGUAAUA A CCUUCUCA	8346	UGAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA AUUAACCA	26722
4873	6157	AUAUACCU U CUCACGCU	8347	AGCGUGAG CUGAUGAG	GCCGUUAGGC	CGAA AGGUAAUA	26723
4874	6156	UAUACCUU C UCACGCUC	8348	GAGCGUGA CUGAUGAG	GCCGUUAGGC	CGAA AAGGUAAU	26724
4876	6154	UACCUUCU C ACGCUCUG	8349	CAGAGCGU CUGAUGAG	GCCGUUAGGC	CGAA AGAAGGUA	26725
4882	6148	CUCACGCU C UGUUGGU	8350	ACCAACCA CUGAUGAG	GCCGUUAGGC	CGAA AGCGUGAG	26726
4887	6143	GCUCUGGU U GGUAGAAU	8351	AUUCUACC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGAGC	26727
4891	6139	UGGUUGGU A GAAUGAG	8352	CUCAAUUC CUGAUGAG	GCCGUUAGGC	CGAA ACCAACCA	26728
4896	6134	GGUAGAAU U GAGCGAUC	8353	GAUCGCUC CUGAUGAG	GCCGUUAGGC	CGAA AUUCUACC	26729
4904	6126	UGAGCGAU C AGUCCGUU	8354	AACGGACU CUGAUGAG	GCCGUUAGGC	CGAA AUCGCUCA	26730
4908	6122	CGAUCAGU C CGUUUGGC	8355	GCCAAACG CUGAUGAG	GCCGUUAGGC	CGAA ACUGAUCG	26731
4912	6118	CAGUCCGU U UGGCAUGU	8356	ACAUGCCA CUGAUGAG	GCCGUUAGGC	CGAA ACGGACUG	26732
4913	6117	AGUCCGUU U GGCAUGUU	8357	AACAUGCC CUGAUGAG	GCCGUUAGGC	CGAA AACGGACU	26733
4921	6109	UGGCAUGU U GAUGUUGU	8358	ACAACAUC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGCCA	26734
4927	6103	GUUGAUGU U GUCCAGCA	8359	UGCUGGAC CUGAUGAG	GCCGUUAGGC	CGAA ACAUCAAC	26735

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4930	6100	GAUGUUGU C CAGCAUGA	8360	UCAUGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAACAUC	26736
4940	6090	AGCAUGAU U CGUGCCUC	8361	GAGGCACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCAUGCU	26737
4941	6089	GCAUGAUU C GUGCCUCA	8362	UGAGGCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUCAUGC	26738
4948	6082	UCGUGCCU C AGUCCAAU	8363	AUUGGACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGCACGA	26739
4952	6078	GCCUCAGU C CAAUGGGC	8364	GCCCAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGAGGC	26740
4966	6064	GGCGAAGU U CGAGUCGU	8365	ACGACUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUCGCC	26741
4967	6063	GCGAAGUU C GAGUCGUC	8366	GACGACUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUUCGC	26742
4972	6058	GUUCGAGU C GUCUUCAU	8367	AUGAAGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCGAAC	26743
4975	6055	CGAGUCGU C UUCAUUCG	8368	CGAAUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGACUCG	26744
4977	6053	AGUCGUCU U CAUUCGUG	8369	CACGAAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGACGACU	26745
4978	6052	GUCGUCUU C AUUCGUGU	8370	ACACGAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGACGAC	26746
4981	6049	GUCUUCAU U CGUGUGCC	8371	GGCACACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGAAGAC	26747
4982	6048	UCUUCAUU C GUGUGCCC	8372	GGGCACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUGAAGA	26748
4996	6034	CCCCCAU A ACAGUACU	8373	AGUACUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGGGGG	26749
5002	6028	AUAACAGU A CUCAUCAC	8374	GUGAUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGUUAU	26750
5005	6025	ACAGUACU C AUCACCAA	8375	UUGGUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUACUGU	26751
5008	6022	GUACUCAU C ACCAACUU	8376	AAGUUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGAGUAC	26752
5016	6014	CACCAACU U GCGACGGA	8377	UCCGUCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUGGUG	26753
5026	6004	CGACGGAU U UCUACCGA	8378	UCGGUAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCGUCG	26754
5027	6003	GACGGAUU U CUACCGAU	8379	AUCGGUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUCCGUC	26755
5028	6002	ACGGAUUU C UACCGAUA	8380	UAUCGGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUCCGCU	26756
5030	6000	GGAUUUCU A CCGAUACG	8381	CGUAUCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAAAUCC	26757
5036	5994	CUACCGAU A CGUCCACG	8382	CGUGGACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCGGUAG	26758
5040	5990	CGAUACGU C CACGUCUC	8383	GAGACGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGUAUCG	26759
5046	5984	GUCCACGU C UCUGGGCG	8384	CGCCCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGUGGAC	26760
5048	5982	CCACGUCU C UGGGCGGC	8385	GCCGCCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGACGUGG	26761
5060	5970	GCGGCACU A GCUGCUGU	8386	ACAGCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGCCGC	26762
5069	5961	GCUGCUGU C ACUGCAGA	8387	UCUCGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGCAGC	26763
5082	5948	CAGAUGGU U CUCCAGG	8388	CCUGGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAUCUG	26764
5083	5947	AGAUGGUU C UCCAGGA	8389	UCCUGGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCAUCU	26765
5085	5945	AUGGUUCU C CCAGGAUC	8390	GAUCCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAACCAU	26766
5093	5937	CCCAGGAU C ACUCUCCC	8391	GGGAGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCUGGG	26767
5097	5933	GGAUCACU C UCCUUCU	8392	AGAAGGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGAUCC	26768
5099	5931	AUCACUCU C CCUUCUCC	8393	GGAGAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGUGAU	26769
5103	5927	CUCUCCCU U CUCCUUCU	8394	AGAAGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGAGAG	26770
5104	5926	UCUCCCUU C UCCUUCUG	8395	CAGAAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGGAGA	26771
5106	5924	UCCUUCU C CUUCUGUU	8396	AACAGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAAGGGA	26772
5109	5921	CUUCUCU U CUGUUAUG	8397	CAUAACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGAGAAG	26773
5110	5920	UUCUCCUU C UGUUAUGA	8398	UCAUAACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGAGAA	26774
5114	5916	CCUUCUGU U AUGAUGGU	8399	ACCAUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGAAGG	26775
5115	5915	CUUCUGUU A UGAUGGUU	8400	AACCAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACAGAAG	26776
5123	5907	AUGAUGGU U GGUUUCAC	8401	GUGAAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAUCAU	26777
5127	5903	UGGUUGGU U UCACACUC	8402	GAGUGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAACCA	26778
5128	5902	GGUUGGUU U CACACUCU	8403	AGAGUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCAACC	26779
5129	5901	GUUGGUUU C ACACUCUU	8404	AAGAGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAACCAAC	26780
5135	5895	UUCACACU C UUCGGGCU	8405	AGCCGGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGUGAA	26781
5137	5893	CACACUCU U CCGGCUGU	8406	ACAGCCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGUGUG	26782
5138	5892	ACACUCUU C CGGCUGUC	8407	GACAGCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGAGUGU	26783
5146	5884	CCGGCUGU C AAUCACCC	8408	GGGUGAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGCCGG	26784
5150	5880	CUUCACAU C ACCUGCU	8409	AGCAGGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGACAG	26785
5159	5871	ACCCUGCU C GCCUUGAA	8410	UUCAAGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAGGGU	26786
5164	5866	GCUCGCCU U GAAGUUAAG	8411	CUAACUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGCGAGC	26787
5170	5860	CUUGAAGU U AGCCCCA	8412	UGGGGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUCGAG	26788
5171	5859	UUGAAGUU A GCCCCAU	8413	AUGGGGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUUCAA	26789
5180	5850	GCCCCAU U UCAGAUAU	8414	AUAUCUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGGGGC	26790
5181	5849	CCCCAUU U CAGAUUAG	8415	CAUAUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUGGGGG	26791
5182	5848	CCCCAUU C AGAUUAGU	8416	ACAUUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAUGGGG	26792
5187	5843	UUUCAGAU A UGUCUGUU	8417	AACAGACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCUGAAU	26793
5191	5839	AGAUUAGU C UGUUGUGA	8418	UCACAACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUAUCU	26794
5195	5835	AUGUCUGU U GUGAUUAC	8419	GUUAUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACACAU	26795
5201	5829	GUUGUGAU A ACAAGUC	8420	GACUUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACACAC	26796
5209	5821	AACAAAGU C CCAUCAU	8421	AUGAUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUGUUU	26797

5215	5815	GUCCCAAU C AUCGUUCU	8422	AGAACGAU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGGAC	26798
5218	5812	CCAAUCAU C GUUCUAC	8423	GUAAGAAC CUGAUGAG	GCCGUUAGGC	CGAA AUGAUUGG	26799
5221	5809	AUCAUCGU U CUUACAUU	8424	AAUGUAAG CUGAUGAG	GCCGUUAGGC	CGAA ACGAUGAU	26800
5222	5808	UCAUCGUU C UUACAUUU	8425	AAUGUAA CUGAUGAG	GCCGUUAGGC	CGAA AACGAUGA	26801
5224	5806	AUCGUUCU U ACAUUUUG	8426	CAAAAUGU CUGAUGAG	GCCGUUAGGC	CGAA AGAACGAU	26802
5225	5805	UCGUUCU A CAUUUUGG	8427	CCAAAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAACGA	26803
5229	5801	UCUUACAU U UUGGGUAC	8428	GUACCCAA CUGAUGAG	GCCGUUAGGC	CGAA AUGUAAGA	26804
5230	5800	CUUACAUU U UGGGUACU	8429	AGUACCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUGUAAG	26805
5231	5799	UUACAUUU U GGGUACUC	8430	GAGUACCC CUGAUGAG	GCCGUUAGGC	CGAA AAAUGUAA	26806
5236	5794	UUUUGGGU A CUCCGUCU	8431	AGACGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACCCAAAA	26807
5239	5791	UGGGUACU C CGUCUCGU	8432	ACGAGACG CUGAUGAG	GCCGUUAGGC	CGAA AGUACCCA	26808
5243	5787	UACUCCGU C UCGUACGA	8433	UCGUACGA CUGAUGAG	GCCGUUAGGC	CGAA ACGGAGUA	26809
5245	5785	CUCCGUCU C GUACGACU	8434	AGUCGUAC CUGAUGAG	GCCGUUAGGC	CGAA AGACGGAG	26810
5248	5782	CGUCUCGU A CGACUUUC	8435	GAAAGUCG CUGAUGAG	GCCGUUAGGC	CGAA ACGAGACG	26811
5254	5776	GUACGACU U UCUGUUA	8436	UGAACAGA CUGAUGAG	GCCGUUAGGC	CGAA AGUCGUAC	26812
5255	5775	UACGACUU U CUGUCAA	8437	UUGAACAG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCGUA	26813
5256	5774	ACGACUUU C UGUUCAAU	8438	AUUGAACCA CUGAUGAG	GCCGUUAGGC	CGAA AAAGUCGU	26814
5260	5770	CUUUCUGU U CAAUUGGA	8439	UCCAAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACAGAAAG	26815
5261	5769	UUUCUGU C AAUUGGAC	8440	GUCCAAU CUGAUGAG	GCCGUUAGGC	CGAA AACAGAAA	26816
5265	5765	UGUUCAAU U GGACUACU	8441	AGUAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AUUGAACAA	26817
5271	5759	AUUGGACU A CUUUCUUU	8442	AAAGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGUCCAAU	26818
5274	5756	GGACUACU U UCUUUCCA	8443	UGGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGUAGUCC	26819
5275	5755	GACUACUU U CUUUCAG	8444	CUGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGUAGUC	26820
5276	5754	ACUACUUU C UUUCAGC	8445	GCUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGUAGU	26821
5278	5752	UACUUUCU U UCCAGCAC	8446	GUGCUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGUA	26822
5279	5751	ACUUUCUU U CCAGCACG	8447	CGUGCUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGU	26823
5280	5750	CUUUCUUU C CAGCACGU	8448	ACGUGCUG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAAAG	26824
5289	5741	CAGCACGU U GUAGGCAA	8449	UUGCUAC CUGAUGAG	GCCGUUAGGC	CGAA ACGUGCUG	26825
5292	5738	CACGUUGU A GGCAAAGG	8450	CCUUUGCC CUGAUGAG	GCCGUUAGGC	CGAA ACAACGUG	26826
5306	5724	AGGGCAAU C UCAUUCU	8451	GGGAAUGA CUGAUGAG	GCCGUUAGGC	CGAA AUUGCCCU	26827
5308	5722	GGCAAUCU C AUUCCCA	8452	UGGGGAAU CUGAUGAG	GCCGUUAGGC	CGAA AGAUUGCC	26828
5311	5719	AAUCUCAU U CCCCAUCU	8453	AGAUGGGG CUGAUGAG	GCCGUUAGGC	CGAA AUGAGAUU	26829
5312	5718	AUCUCAU C CCCAUCU	8454	AAGAUUGG CUGAUGAG	GCCGUUAGGC	CGAA AAUGAGAU	26830
5318	5712	UUCCCCAU C UGACACU	8455	AGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA AUGGGGAA	26831
5320	5710	CCCAUCU U GACACUAG	8456	CUAGUGUC CUGAUGAG	GCCGUUAGGC	CGAA AGAUGGGG	26832
5327	5703	UUGACACU A GGCACAAA	8457	UUUGUGCC CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCA	26833
5345	5685	CAAACCGU C UUCCCGGU	8458	ACCGGGAA CUGAUGAG	GCCGUUAGGC	CGAA ACGGUUUG	26834
5347	5683	AACCGUCU U CCCGGUGU	8459	ACACCGGG CUGAUGAG	GCCGUUAGGC	CGAA AGACGGUU	26835
5348	5682	ACCGUCUU C CCGGUGUA	8460	UACACCGG CUGAUGAG	GCCGUUAGGC	CGAA AAGACGGU	26836
5356	5674	CCCGGUGU A UUCUGUGA	8461	UCACAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACACCGGG	26837
5358	5672	CGGUGUAU U CUGUGAUC	8462	GAUCACAG CUGAUGAG	GCCGUUAGGC	CGAA AUACACCG	26838
5359	5671	GGUGUAU C UGUGAUCC	8463	GGAUCACA CUGAUGAG	GCCGUUAGGC	CGAA AAUACACC	26839
5366	5664	UCUGUGAU C CAUUCGUA	8464	UACGAAUG CUGAUGAG	GCCGUUAGGC	CGAA AUCACAGA	26840
5370	5660	UGAUCCAU U CGUAUCCA	8465	UGGAUACG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUCA	26841
5371	5659	GAUCCAU C GUAUCCAG	8466	CUGGAUAC CUGAUGAG	GCCGUUAGGC	CGAA AAUGGAUC	26842
5374	5656	CCAUUCGU A UCCAGAGU	8467	ACUCUGGA CUGAUGAG	GCCGUUAGGC	CGAA ACGAAUGG	26843
5376	5654	AUUCGUAU C CAGAGUUC	8468	GAACUCUG CUGAUGAG	GCCGUUAGGC	CGAA AUACGAAU	26844
5383	5647	UCCAGAGU U CCAAGCUC	8469	GAGCUUGG CUGAUGAG	GCCGUUAGGC	CGAA ACUCUGGA	26845
5384	5646	CCAGAGUU C CAAGCUCG	8470	CGAGCUUG CUGAUGAG	GCCGUUAGGC	CGAA AACUCUGG	26846
5391	5639	UCCAAGCU C GAUCCGGG	8471	CCCAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AGCUUGGA	26847
5395	5635	AGCUCGAU C CGGGAUCU	8472	AGAUCCTG CUGAUGAG	GCCGUUAGGC	CGAA AUCGACU	26848
5402	5628	UCCGGGAU C UCAGUCUG	8473	CAGACUGA CUGAUGAG	GCCGUUAGGC	CGAA AUCCCGGA	26849
5404	5626	CGGGAUCU C AGUCUGUA	8474	UACAGACU CUGAUGAG	GCCGUUAGGC	CGAA AGAUCCCG	26850
5408	5622	AUCUCAGU C UGUAGUC	8475	GACUUACA CUGAUGAG	GCCGUUAGGC	CGAA ACUGAGAU	26851
5412	5618	CAGUCUGU A AGUCGGAA	8476	UUCGACU CUGAUGAG	GCCGUUAGGC	CGAA ACAGACUG	26852
5416	5614	CUGUAAGU C GGAAAUUG	8477	CAAUUUC CUGAUGAG	GCCGUUAGGC	CGAA ACUUACAG	26853
5423	5607	UCGGAAAU U GGUGAAU	8478	AAUUCACC CUGAUGAG	GCCGUUAGGC	CGAA AUUUCCGA	26854
5431	5599	UGGUGAAU U GGACUCUG	8479	CAGAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AUUCACCA	26855
5437	5593	AUUGGACU C UGGGAUUG	8480	CAUUCCTA CUGAUGAG	GCCGUUAGGC	CGAA AGUCCAAU	26856
5449	5581	GAAUGGAU C UGAAGUC	8481	GCACUUA CUGAUGAG	GCCGUUAGGC	CGAA AUCCAUUC	26857
5474	5556	GUGGCUGU C AUGAAUUA	8482	AUAUUAU CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCAC	26858
5481	5549	UCAUGAAU A UUGCCGCC	8483	GGCGGCAA CUGAUGAG	GCCGUUAGGC	CGAA AUUCAUGA	26859

Table VIII

5483	5547	AUGAAUUAU U GCCGCCGC	8484	GCGGCCGC CUGAUGAG	GCCGUUAGGC	CGAA	AUAUUCAU	26860
5494	5536	CGCCGCCU C CCCUAGCU	8485	AGCUAGGG CUGAUGAG	GCCGUUAGGC	CGAA	AGCGGCCG	26861
5499	5531	CCUCCCCU A GCUCGACC	8486	GGUCGAGC CUGAUGAG	GCCGUUAGGC	CGAA	AGGGGAGG	26862
5503	5527	CCCUGACU C GACCUUUG	8487	CAAAGGUC CUGAUGAG	GCCGUUAGGC	CGAA	AGCUAGGG	26863
5509	5521	CUCGACCU U UGUGGAAA	8488	UUUCCACA CUGAUGAG	GCCGUUAGGC	CGAA	AGGUCCAG	26864
5510	5520	UCGACCUU U GUGGAAAU	8489	AUUUCCAC CUGAUGAG	GCCGUUAGGC	CGAA	AAGGUCGA	26865
5521	5509	GGAAAUUGU A ACCUCUUG	8490	CAAGAGGU CUGAUGAG	GCCGUUAGGC	CGAA	ACAUIUCC	26866
5526	5504	UGUAACCU C UUGCUGCA	8491	UGCAGCAA CUGAUGAG	GCCGUUAGGC	CGAA	AGGUUACA	26867
5528	5502	UAACCUCU U GCUGCAAU	8492	AUUGCAGC CUGAUGAG	GCCGUUAGGC	CGAA	AGAGGUUA	26868
5540	5490	GCAAUGCU A GCUGGGUC	8493	GACCCAGC CUGAUGAG	GCCGUUAGGC	CGAA	AGCAUUGC	26869
5548	5482	AGCUGGGU C GGUGAAAU	8494	AUUUCCAC CUGAUGAG	GCCGUUAGGC	CGAA	ACCCAGCU	26870
5563	5467	AUGAGCCU C AUCCAUCA	8495	UGAUGGAU CUGAUGAG	GCCGUUAGGC	CGAA	AGGCUCAU	26871
5566	5464	AGCCUCAU C CAUCACGA	8496	UCGUGAUG CUGAUGAG	GCCGUUAGGC	CGAA	AUGAGGCU	26872
5570	5460	UCAUCAU C ACGAACAG	8497	CUGUUCGU CUGAUGAG	GCCGUUAGGC	CGAA	AUGGAUGA	26873
5581	5449	GAACAGGU U GUAGUUCG	8498	CGAACUAC CUGAUGAG	GCCGUUAGGC	CGAA	ACCUGUUC	26874
5584	5446	CAGGUUGU A GUUCGGCA	8499	UGCCGAAC CUGAUGAG	GCCGUUAGGC	CGAA	ACAACCUG	26875
5587	5443	GUUGUAGU U CGGCACCC	8500	GGGUGCCG CUGAUGAG	GCCGUUAGGC	CGAA	ACUACAAC	26876
5588	5442	UUGUAGUU C GGCACCCU	8501	AGGGUGCC CUGAUGAG	GCCGUUAGGC	CGAA	AACUACAA	26877
5609	5421	GGAGACAU C AGCCUGUG	8502	CACAGGCU CUGAUGAG	GCCGUUAGGC	CGAA	AUGUCUCC	26878
5627	5403	GUGAGGGU A GCAUGACA	8503	UGUCAUGC CUGAUGAG	GCCGUUAGGC	CGAA	ACCCUCAC	26879
5644	5386	CAUGACAU C AACAAUCU	8504	AGAUUGUU CUGAUGAG	GCCGUUAGGC	CGAA	AUGUCAUG	26880
5651	5379	UCAACAAU C UCAUUUCC	8505	GGAAAUUA CUGAUGAG	GCCGUUAGGC	CGAA	AUUGUUGA	26881
5653	5377	AACAAUCU C AUUUCUCC	8506	AUGGAAAU CUGAUGAG	GCCGUUAGGC	CGAA	AGAUUGUU	26882
5656	5374	AAUCUCAU U UCCAUUAU	8507	AUAAUGGA CUGAUGAG	GCCGUUAGGC	CGAA	AUGAGAUU	26883
5657	5373	AUCUCAUU U CCAUUAUG	8508	CAUAAUGG CUGAUGAG	GCCGUUAGGC	CGAA	AAUGAGAU	26884
5658	5372	UCUCAUUU C CAUUAUGU	8509	ACAUAUUG CUGAUGAG	GCCGUUAGGC	CGAA	AAUUGAGA	26885
5662	5368	AUUUCCAU U AUGUUCUC	8510	GAGAACAU CUGAUGAG	GCCGUUAGGC	CGAA	AUGGAAAU	26886
5663	5367	UUUCCAUU A UGUUCUCU	8511	AGAGAACA CUGAUGAG	GCCGUUAGGC	CGAA	AAUGGAAA	26887
5667	5363	CAUUAUGU U CUCUGGGC	8512	GCCGAGAG CUGAUGAG	GCCGUUAGGC	CGAA	ACAUAUUG	26888
5668	5362	AUUAUGUU C UCUGGGCA	8513	UGCCGAGA CUGAUGAG	GCCGUUAGGC	CGAA	ACAUAUUA	26889
5670	5360	UAUGUUCU C UGGGCACT	8514	AGUGCCCA CUGAUGAG	GCCGUUAGGC	CGAA	AGAACAUA	26890
5687	5343	GCGGAUGU C UGGUACCG	8515	CGGUACCA CUGAUGAG	GCCGUUAGGC	CGAA	ACAUCCGC	26891
5692	5338	UGUCUGGU A CCGGAUGG	8516	CCAUCCGG CUGAUGAG	GCCGUUAGGC	CGAA	ACCAGACA	26892
5706	5324	UGGGCAGU C CUCUCAGU	8517	ACUGAGAG CUGAUGAG	GCCGUUAGGC	CGAA	ACUGCCCA	26893
5709	5321	GCAGUCCU C UCAGUGCU	8518	AGCACUGA CUGAUGAG	GCCGUUAGGC	CGAA	AGGACUGC	26894
5711	5319	AGUCCUCU C AGUGCUUC	8519	GAAGCACU CUGAUGAG	GCCGUUAGGC	CGAA	AGAGGACU	26895
5718	5312	UCAGGCUU C CAGCCAUC	8520	GAUGGCUG CUGAUGAG	GCCGUUAGGC	CGAA	AGCAGUGA	26896
5719	5311	CAGUGCUU C AGCCAUCU	8521	AGAUGGCU CUGAUGAG	GCCGUUAGGC	CGAA	AGACACUG	26897
5726	5304	UCAGCCAU C UCAGCAGC	8522	GCUGCUGA CUGAUGAG	GCCGUUAGGC	CGAA	AUGGCUGA	26898
5728	5302	AGCCAUCU C AGCAGCCA	8523	UGGCGUCU CUGAUGAG	GCCGUUAGGC	CGAA	AGAUGGCU	26899
5747	5283	ACCCUGGU U GGUGCUAG	8524	CUAGCACC CUGAUGAG	GCCGUUAGGC	CGAA	ACCAGGGU	26900
5754	5276	UUGGUGCU A GCACGGCU	8525	AGCCGUGC CUGAUGAG	GCCGUUAGGC	CGAA	AGCACCAA	26901
5765	5265	ACGGCUGU U CUCAGUCU	8526	AGACUGAG CUGAUGAG	GCCGUUAGGC	CGAA	ACAGCCGU	26902
5766	5264	CGGCGUGU C UCAGUCUU	8527	AAGACUGA CUGAUGAG	GCCGUUAGGC	CGAA	AACAGCCG	26903
5768	5262	GCUGUUCU C AGUCUUCU	8528	AGAAGACU CUGAUGAG	GCCGUUAGGC	CGAA	AGAACAGC	26904
5772	5258	UUCUCAGU C UUCUGUUU	8529	AAACAGAA CUGAUGAG	GCCGUUAGGC	CGAA	ACUGAGAA	26905
5774	5256	CUCAGUCU U CUGUUUAU	8530	AUAAACAG CUGAUGAG	GCCGUUAGGC	CGAA	AGACTUGAG	26906
5775	5255	UCAGUCUU C UGUUUAUG	8531	CAUAAACA CUGAUGAG	GCCGUUAGGC	CGAA	AAGACUGA	26907
5779	5251	UCUUCUGU U UAUGGCCU	8532	AGGCCAUU CUGAUGAG	GCCGUUAGGC	CGAA	ACAGAAGA	26908
5780	5250	CUUCUGUU U AUGGCCUC	8533	GAGGCCAU CUGAUGAG	GCCGUUAGGC	CGAA	AACAGAAG	26909
5781	5249	UUCUGUUU A UGGCCUCU	8534	AGAGGCCA CUGAUGAG	GCCGUUAGGC	CGAA	AAACAGAA	26910
5788	5242	UAUGGCCU C UUUGAUGA	8535	UCAUCAA CUGAUGAG	GCCGUUAGGC	CGAA	AGGCCAUU	26911
5790	5240	UGGCCUCU U UGAUGAUC	8536	GAUCAUCA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGGCCA	26912
5791	5239	GGCCUCUU U GAUGAUCU	8537	AGAUAUCU CUGAUGAG	GCCGUUAGGC	CGAA	AAGAGGCC	26913
5798	5232	UUGAUGAU C UGUGGCAG	8538	CUGCCACA CUGAUGAG	GCCGUUAGGC	CGAA	AUCAUCAU	26914
5810	5220	GGCAGAAU C CUCCUUGU	8539	ACAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA	AUUCUGCC	26915
5813	5217	AGAAUCCU C CUUGUUUU	8540	AAAACAAG CUGAUGAG	GCCGUUAGGC	CGAA	AGGAUUCU	26916
5816	5214	AUCCUCCU U GUUUUACC	8541	GGUAAAC CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGAU	26917
5819	5211	CUCCUUGU U UUACCGGC	8542	GCCGGUAA CUGAUGAG	GCCGUUAGGC	CGAA	ACAAGGAG	26918
5820	5210	UCCUUGUU U UACCGGCG	8543	CGCCGGUA CUGAUGAG	GCCGUUAGGC	CGAA	AACAAGGA	26919
5821	5209	CCUUGUUU U ACCGGCGC	8544	GCGCCGGU CUGAUGAG	GCCGUUAGGC	CGAA	AAACAAGG	26920
5822	5208	CUUGUUUU A CCGGCGCC	8545	GGCGCCGG CUGAUGAG	GCCGUUAGGC	CGAA	AAAACAAG	26921

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5842	5188	AUGGAGAU C CAGUACAG	8546	CUGUACUG CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCAU	26922
5847	5183	GAUCCAGU A CAGUGAUC	8547	GAUCACUG CUGAUGAG	GCCGUUAGGC	CGAA ACUGGAUC	26923
5855	5175	ACAGUGAU C UGUUUUUU	8548	AAAAAACA CUGAUGAG	GCCGUUAGGC	CGAA AUCACUGU	26924
5859	5171	UGAUCUGU U UUUUCCUC	8549	GAGGAAAA CUGAUGAG	GCCGUUAGGC	CGAA ACAGAUCA	26925
5860	5170	GAUCUGUU U UUUCCUCA	8550	UGAGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AACAGAUU	26926
5861	5169	AUCUGUUU U UUUCCUCAG	8551	CUGAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAACAGAU	26927
5862	5168	UCUGUUUU U UCCUCAGC	8552	GCUGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAAACAGA	26928
5863	5167	CUGUUUUU U CCUCAGCA	8553	UGCUGAGG CUGAUGAG	GCCGUUAGGC	CGAA AAAACAG	26929
5864	5166	UGUUUUUU C CUCAGCAU	8554	AUGCUGAG CUGAUGAG	GCCGUUAGGC	CGAA AAAAACA	26930
5867	5163	UUUUUCCU C AGCAUCUC	8555	GAGAUGCU CUGAUGAG	GCCGUUAGGC	CGAA AGGAAAA	26931
5873	5157	CUCAGCAU C UCAGGUUC	8556	GAACCUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGCUGAG	26932
5875	5155	CAGCAUCU C AGGUUCGA	8557	UCGAACCU CUGAUGAG	GCCGUUAGGC	CGAA AGAUGCUG	26933
5880	5150	UCUCAGGU U CGAAUCCG	8558	CGGAUUCG CUGAUGAG	GCCGUUAGGC	CGAA ACCUGAGA	26934
5881	5149	CUCAGGUU C GAAUCCGG	8559	CCGGAUUC CUGAUGAG	GCCGUUAGGC	CGAA AACUCGAG	26935
5886	5144	GUUCGAAU C CGCUGGG	8560	CCCAGCCG CUGAUGAG	GCCGUUAGGC	CGAA AUUCGAAC	26936
5897	5133	GCUGGGAU U GGCUCAUC	8561	GGAUGAGC CUGAUGAG	GCCGUUAGGC	CGAA AUCCCAGC	26937
5902	5128	GAUUGGCU C AUCCAUC	8562	GGAUGGAU CUGAUGAG	GCCGUUAGGC	CGAA AGCCAAUC	26938
5905	5125	UGGCUCAU C CAUCCUUU	8563	AAAGGAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGAGCCA	26939
5909	5121	UCAUCCA C CUUCCACC	8564	GGUGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUGA	26940
5912	5118	UCCAUCU U UCACCUCG	8565	CAGGGUGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAUGGA	26941
5913	5117	CCAUCUUU U CACCCUGC	8566	GCAGGGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAUGG	26942
5914	5116	CAUCCUUU C ACCCUGCA	8567	UGCAGGGU CUGAUGAG	GCCGUUAGGC	CGAA AAAGGAUG	26943
5925	5105	CCUGCACU A UCGCGCUU	8568	AAGCGCGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGCAGG	26944
5927	5103	UGCACUAU C GCGCUUUA	8569	AUAAGCGC CUGAUGAG	GCCGUUAGGC	CGAA AUAGUGCA	26945
5933	5097	AUCGCGCU U AUGUAUGA	8570	UCAUACAU CUGAUGAG	GCCGUUAGGC	CGAA AGCGCGAU	26946
5934	5096	UCGCGCUU A UGUUAUGAG	8571	CUCAUACA CUGAUGAG	GCCGUUAGGC	CGAA AAGCGCGA	26947
5938	5092	GCUUUAUGU A UGAGCCGU	8572	ACGGCUCA CUGAUGAG	GCCGUUAGGC	CGAA ACAUAAGC	26948
5947	5083	UGAGCCGU U GGGCAUUA	8573	UAAUGCCC CUGAUGAG	GCCGUUAGGC	CGAA ACGGCUCA	26949
5954	5076	UUGGGCAU U AUGACUCC	8574	GGAGUCA CUGAUGAG	GCCGUUAGGC	CGAA AUGCCCAA	26950
5955	5075	UGGGCAUU A UGACUCCA	8575	UGGAGUCA CUGAUGAG	GCCGUUAGGC	CGAA AAACGCCA	26951
5961	5069	UUAUGACU C CAUUGCCA	8576	UGGCAUUG CUGAUGAG	GCCGUUAGGC	CGAA AGUCAUAA	26952
5965	5065	GACUCCA U GCCAUAAA	8577	UUUAUGGC CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGUC	26953
5971	5059	AUUGCCA A AAGCCCAA	8578	UUGGGCUU CUGAUGAG	GCCGUUAGGC	CGAA AUGGCAAU	26954
5981	5049	AGCCCAA C ACAUACC	8579	GGUGAUGU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGGCU	26955
5986	5044	AAUACAU C ACCGUUUU	8580	AAAACGGU CUGAUGAG	GCCGUUAGGC	CGAA AUGUGAUU	26956
5992	5038	AUCACCGU U UUGUCCA	8581	UGGACAAA CUGAUGAG	GCCGUUAGGC	CGAA ACGGUGAU	26957
5993	5037	UCACCGUU U UUGUCCAC	8582	GUGGACAA CUGAUGAG	GCCGUUAGGC	CGAA AACGGUGA	26958
5994	5036	CACCGUUU U UGUCCACU	8583	AGUGGACA CUGAUGAG	GCCGUUAGGC	CGAA AAACGGUG	26959
5995	5035	ACCGUUUU U GUCCACUA	8584	UAGUGGAC CUGAUGAG	GCCGUUAGGC	CGAA AAAACGGU	26960
5998	5032	GUUUUUUG C CACUAUUG	8585	CAUUAUGU CUGAUGAG	GCCGUUAGGC	CGAA ACAAAC	26961
6003	5027	UGUCCACU A UUGGUGAG	8586	CUCACCAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGGACA	26962
6005	5025	UCCACUAU U GGUGAGCC	8587	GGCUCACC CUGAUGAG	GCCGUUAGGC	CGAA AUAGUGGA	26963
6020	5010	CCUGAUGU U CAGUGGG	8588	CCCACUGG CUGAUGAG	GCCGUUAGGC	CGAA ACAUCAGG	26964
6021	5009	CUGAUGUU C CAGUGGGG	8589	CCCCACUG CUGAUGAG	GCCGUUAGGC	CGAA AACAUCAU	26965
6034	4996	GGGGAAGU C CAAAGUCA	8590	UGACUUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUUCCCC	26966
6041	4989	UCCAAGU C ACGGCCCC	8591	GGGGCCGU CUGAUGAG	GCCGUUAGGC	CGAA ACUUUGGA	26967
6053	4977	GCCCCGAU U UCUCUUUC	8592	GAAGGAGA CUGAUGAG	GCCGUUAGGC	CGAA AUCGGGGC	26968
6054	4976	CCCCGAUU U CUCUUUCA	8593	UGAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAUCGGGG	26969
6055	4975	CCCCGAUU C UCCUUCAG	8594	CUGAAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAUUCGGG	26970
6057	4973	CGAUUUUC C CUUCAGGU	8595	ACCUGAAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAAUCG	26971
6060	4970	UUUCUCCU U CAGGUGUU	8596	AACACCUG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAAA	26972
6061	4969	UUCUCCUU C AGGUGUUU	8597	AAACACCU CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGAA	26973
6068	4962	UCAGGUGU U UUGAACAC	8598	GUGUUCAA CUGAUGAG	GCCGUUAGGC	CGAA ACACCUCA	26974
6069	4961	CAGGUGUU U UGAACACC	8599	GGUGUCCA CUGAUGAG	GCCGUUAGGC	CGAA AACACCUG	26975
6070	4960	AGGUGUUU U GAACACCC	8600	GGGUGUUC CUGAUGAG	GCCGUUAGGC	CGAA AAACACCU	26976
6084	4946	CCCCUGGU U UCGUCUGG	8601	CCAGACGA CUGAUGAG	GCCGUUAGGC	CGAA ACCAGGGG	26977
6085	4945	CCCUGGUU U CGUCUGGA	8602	UCCAGACG CUGAUGAG	GCCGUUAGGC	CGAA AACCAGGG	26978
6086	4944	CCUGGUUU C GUCUGGAC	8603	GUCCAGAC CUGAUGAG	GCCGUUAGGC	CGAA AAACCAGG	26979
6089	4941	GGUUUCGU C UGGACGUU	8604	AACGUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACGAAACC	26980
6097	4933	CUGGACGU U CUUACGUU	8605	ACGUUAAG CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCAG	26981
6098	4932	UGGACGUU C UUAACGUU	8606	AACGUUAA CUGAUGAG	GCCGUUAGGC	CGAA AACGUCCA	26982
6100	4930	GACGUUCU U AACGUUCU	8607	AGAACGUU CUGAUGAG	GCCGUUAGGC	CGAA AGAACGUC	26983

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6101	4929	ACGUUCUU A ACGUUCUU	8608	AAGAACGU CUGAUGAG	GCCGUUAGGC	CGAA AAGAACGU	26984
6106	4924	CUUAACGU U CUUGCCAG	8609	CUGGCAAG CUGAUGAG	GCCGUUAGGC	CGAA ACGUUAAG	26985
6107	4923	UUAACGUU C UUGCCAGG	8610	CCUGGCAA CUGAUGAG	GCCGUUAGGC	CGAA AACGUUAA	26986
6109	4921	AACGUUCU U GCCAGGUU	8611	AACCUGGC CUGAUGAG	GCCGUUAGGC	CGAA AGAACGUU	26987
6117	4913	UGCCAGGU U CCACCACA	8612	UGUGGUGG CUGAUGAG	GCCGUUAGGC	CGAA ACCUGGCA	26988
6118	4912	GCCAGGUU C CACCACAA	8613	UUGUGGUG CUGAUGAG	GCCGUUAGGC	CGAA AACCUGGC	26989
6128	4902	ACCACAAU C AUCUGCAC	8614	GUGCAGAU CUGAUGAG	GCCGUUAGGC	CGAA AUUGUGGU	26990
6131	4899	ACAAUCAU C UGCACCUC	8615	GAGGUGCA CUGAUGAG	GCCGUUAGGC	CGAA AUGAUUGU	26991
6139	4891	CUGCACC U AUCUGCC	8616	GGCAGGAU CUGAUGAG	GCCGUUAGGC	CGAA AGGUGCAG	26992
6142	4888	CACCUCAU C CUGCCCGU	8617	ACGGGCAG CUGAUGAG	GCCGUUAGGC	CGAA AUGAGGUG	26993
6151	4879	CUGCCCGU U CCACUUGU	8618	ACAAGUGG CUGAUGAG	GCCGUUAGGC	CGAA ACGGGCAG	26994
6152	4878	UGCCCGUU C CACUUGUG	8619	CACAAGUG CUGAUGAG	GCCGUUAGGC	CGAA AACGGGCA	26995
6157	4873	GUUCCACU U GUGCUGCA	8620	UGCAGCAC CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAAC	26996
6168	4862	GCUGCAAU U UCCAGGGU	8621	ACCCUGGA CUGAUGAG	GCCGUUAGGC	CGAA AUUGCAGC	26997
6169	4861	CUGCAAU U CCAGGGUC	8622	GACCCUGG CUGAUGAG	GCCGUUAGGC	CGAA AAUUGCAG	26998
6170	4860	UGCAAUUU C CAGGGUCC	8623	GGACCCUG CUGAUGAG	GCCGUUAGGC	CGAA AAAUUGCA	26999
6177	4853	UCCAGGGU C CUCCGUAA	8624	UUACGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACCCUGGA	27000
6180	4850	AGGGUCCU C CGUAACAA	8625	UUGUUACG CUGAUGAG	GCCGUUAGGC	CGAA AGGACCCU	27001
6184	4846	UCCUCCGU A ACAAGUC	8626	GACUUUGU CUGAUGAG	GCCGUUAGGC	CGAA ACGGAGGA	27002
6192	4838	AACAAAGU C GAUCCUCC	8627	GGAGGAUC CUGAUGAG	GCCGUUAGGC	CGAA ACUUUGUU	27003
6196	4834	AAGUCGAU C CUCCUUGA	8628	UCAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AUCGACUU	27004
6199	4831	UCGAUCCU C CUUGACAC	8629	GUGUCAAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAUCGA	27005
6202	4828	AUCCUCCU U GACACUGC	8630	GCAGUUGC CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGAU	27006
6217	4813	GCCCCAGU A UGGGUCCA	8631	UGGACCCA CUGAUGAG	GCCGUUAGGC	CGAA AUUGGGGC	27007
6223	4807	GUAUGGGU C CAGGCGGC	8632	GCCGCCUG CUGAUGAG	GCCGUUAGGC	CGAA ACCCAUAC	27008
6235	4795	GCGGCCCU C UCCGCUCA	8633	UGAGCGGA CUGAUGAG	GCCGUUAGGC	CGAA AGGGCCGC	27009
6237	4793	GGCCUCCU C CGCUCAUC	8634	GAUGAGCG CUGAUGAG	GCCGUUAGGC	CGAA AGAGGGCC	27010
6242	4788	UCUCCGCU C AUCAAAGC	8635	GCUUUGAU CUGAUGAG	GCCGUUAGGC	CGAA AGCGGAGA	27011
6245	4785	CCGCUCAU C AAAGCGGC	8636	GCCGCUUU CUGAUGAG	GCCGUUAGGC	CGAA AUGAGCGG	27012
6255	4775	AAGCGGCU C CUUUGUUU	8637	AACAAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGCCGCUU	27013
6258	4772	CGGCUCCU U UUGUUGUA	8638	UACAACAA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCCG	27014
6259	4771	GGCUCCUU U UGUUGUAU	8639	AUACAACA CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGCC	27015
6260	4770	GCUCCUUU U GUUGUAUG	8640	CAUACAAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGGAGC	27016
6263	4767	CCUUUUGU U GUAUGCCA	8641	UGGCAUAC CUGAUGAG	GCCGUUAGGC	CGAA ACAAAAGG	27017
6266	4764	UUUGUUGU A UGCCAAAG	8642	CUUUGGCA CUGAUGAG	GCCGUUAGGC	CGAA ACAACAAA	27018
6291	4739	AAACACCU U CAACCAUC	8643	GAUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGUGUUU	27019
6292	4738	AACACCUU C AACCAUCA	8644	UGAUGGUU CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGUU	27020
6299	4731	UCAACCAU C ACGCCCGC	8645	CGGGCGU CUGAUGAG	GCCGUUAGGC	CGAA AUGUUGUA	27021
6309	4721	CGCCCGCU C CUGCUUGA	8646	UCAAGCAG CUGAUGAG	GCCGUUAGGC	CGAA AGCGGGCG	27022
6315	4715	CUCCUGCU U GAUAACUG	8647	CAGUUAUC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGGAG	27023
6319	4711	UGCUUGAU A ACUGCCGA	8648	UCGGCAGU CUGAUGAG	GCCGUUAGGC	CGAA AUCAAGCA	27024
6341	4689	CCACGAGU C AUGAUCCU	8649	AGGAUCAU CUGAUGAG	GCCGUUAGGC	CGAA ACUCUGUG	27025
6347	4683	GUCAUGAU C CUGUAGAC	8650	GUCUACAG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGAC	27026
6352	4678	GAUCCUGU A GACGCCGG	8651	CCGGCGUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGGAUC	27027
6365	4665	CCGGUGGU C GUGUCCCC	8652	GGGGACAC CUGAUGAG	GCCGUUAGGC	CGAA ACCACCGG	27028
6370	4660	GGUCGUGU C CCCCUUUU	8653	AAAAGGGG CUGAUGAG	GCCGUUAGGC	CGAA ACACGACC	27029
6376	4654	GUCCCCCU U UUUGUACU	8654	AGUACAAA CUGAUGAG	GCCGUUAGGC	CGAA AGGGGGAC	27030
6377	4653	UCCCCCUU U UUUGUACU	8655	GAGUACAA CUGAUGAG	GCCGUUAGGC	CGAA AAGGGGGA	27031
6378	4652	CCCCCUUU U UGUACUCC	8656	GGAGUACA CUGAUGAG	GCCGUUAGGC	CGAA AAAGGGGG	27032
6379	4651	CCCCUUUU U GUACUCCU	8657	AGGAGUAC CUGAUGAG	GCCGUUAGGC	CGAA AAAAGGGG	27033
6382	4648	CUUUUUGU A CUCCUUUG	8658	CAAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACAAAAAG	27034
6385	4645	UUUGUACU C CUUUGGUG	8659	CACCAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGUACAAA	27035
6388	4642	GUACUCCU U UGGUGAGG	8660	CCUCAACA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGUAC	27036
6389	4641	UACUCCUU U GGUGAGGG	8661	CCUCACCC CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGUA	27037
6403	4627	GGGAGUGU C CCACAACA	8662	UGUUGUGG CUGAUGAG	GCCGUUAGGC	CGAA ACACUCCC	27038
6417	4613	ACACGCCU C CUCUCUUU	8663	AAAGAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGGCGUGU	27039
6420	4610	CGCCUCCU C UCUUUGUG	8664	CACAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGCG	27040
6422	4608	CCUCCUCU C UUUGUGUA	8665	UACACAAA CUGAUGAG	GCCGUUAGGC	CGAA AGAGGAGG	27041
6424	4606	UCCUCUCU U UGUGUAUU	8666	AAUACACA CUGAUGAG	GCCGUUAGGC	CGAA AGAGAGGA	27042
6425	4605	CCUCUCUU U GUGUAUUG	8667	CAAUACAC CUGAUGAG	GCCGUUAGGC	CGAA AAGAGAGG	27043
6430	4600	CUUUGUGU A UUGGAGAG	8668	CUCUCCAA CUGAUGAG	GCCGUUAGGC	CGAA ACACAAAG	27044
6432	4598	UUGUGUAU U GGAGAGUU	8669	AACUCUCC CUGAUGAG	GCCGUUAGGC	CGAA AUACACAA	27045

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6440	4590	UGGAGAGU U AUCCAAAA	8670	UUUUGGAU CUGAUGAG	GCCGUUAGGC	CGAA ACUCUCCA	27046
6441	4589	GGAGAGUU A UCCAAAAU	8671	AUUUUGGA CUGAUGAG	GCCGUUAGGC	CGAA AACUCUCC	27047
6443	4587	AGAGUUU C CAAAAUCC	8672	GGAUUUUG CUGAUGAG	GCCGUUAGGC	CGAA AUAACUCU	27048
6450	4580	UCCAAAAU C CAACUACU	8673	AGUAGUUG CUGAUGAG	GCCGUUAGGC	CGAA AUUUUGGA	27049
6456	4574	AUCCAACU A CUGAGGGC	8674	GCCUCAG CUGAUGAG	GCCGUUAGGC	CGAA AGUUGGAU	27050
6470	4560	GGCAAGAU U GCCCAGGG	8675	CCCUGGG CUGAUGAG	GCCGUUAGGC	CGAA AUCUUGCC	27051
6484	4546	GGGGUGU A CGCACUAA	8676	UUAGUGCG CUGAUGAG	GCCGUUAGGC	CGAA ACACCCCC	27052
6491	4539	UACGCACU A AUCGCGAG	8677	CUCGCGAU CUGAUGAG	GCCGUUAGGC	CGAA AGUGCGUA	27053
6494	4536	GCACUAAU C GCGAGACA	8678	UGUCUCGC CUGAUGAG	GCCGUUAGGC	CGAA AUUAGUGC	27054
6509	4521	CAGACCAU U CUGAGCAU	8679	AUGCUCAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGUCUG	27055
6510	4520	AGACCAU C UGAGCAUC	8680	GAUGCUC CUGAUGAG	GCCGUUAGGC	CGAA AAUGGUCU	27056
6518	4512	CUGAGCAU C CAUAUCU	8681	AAGAUAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGCUCAG	27057
6522	4508	GCAUCCAU A UCUUCCAA	8682	UUGGAAGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUGC	27058
6524	4506	AUCCAUAU C UUCAAGG	8683	CCUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AUUUGGAU	27059
6526	4504	CCAUAUCU U CCAAGGUG	8684	CACCUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAUUUGG	27060
6527	4503	CAUAUCU C CAAGGUGC	8685	GCACCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUAUG	27061
6537	4493	AAGGUGCU C CUGGAUCA	8686	UGAUCCAG CUGAUGAG	GCCGUUAGGC	CGAA AGCACCUC	27062
6544	4486	UCCUGGAU C AUUCAUGA	8687	UCAUGAAU CUGAUGAG	GCCGUUAGGC	CGAA AUCCAGGA	27063
6547	4483	UGGAUCAU U CAUGAGCU	8688	AGCUCUAG CUGAUGAG	GCCGUUAGGC	CGAA AUGAUCCA	27064
6548	4482	GGAUCAU C AUGAGCUG	8689	CAGCUCAU CUGAUGAG	GCCGUUAGGC	CGAA AAUGAUCC	27065
6562	4468	CUGGAAGU U UCCAUCAU	8690	AUGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA ACUCCAG	27066
6563	4467	UGGAAGUU U CCAUCAUC	8691	GAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA AACUCCA	27067
6564	4466	GGAGUUU C CAUCAUCA	8692	UGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA AAACUCC	27068
6568	4462	GUUCCAUC C AUCAUCAA	8693	UGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAAC	27069
6571	4459	UCCAUCAU C AUCAAGCC	8694	GGCUUGAU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGGA	27070
6574	4456	AUCAUCAU C AAGCCGCA	8695	UGC GGCUU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGAU	27071
6586	4444	CCGCACAU C AACUCUUU	8696	AAAGAGUU CUGAUGAG	GCCGUUAGGC	CGAA AUGUGCGG	27072
6591	4439	CAUCAACU C UUUCGCUC	8697	GAGCGAAA CUGAUGAG	GCCGUUAGGC	CGAA AGUUGAUG	27073
6593	4437	UCAACUCU U UCGUCUGA	8698	UCGAGCGA CUGAUGAG	GCCGUUAGGC	CGAA AGAGUUGA	27074
6594	4436	CAACUCUU U CGCUCGAG	8699	CUCGAGCG CUGAUGAG	GCCGUUAGGC	CGAA AAGUUGUG	27075
6595	4435	AACUCUUU C GCUCGAGC	8700	GCUCGAGC CUGAUGAG	GCCGUUAGGC	CGAA AAAGAGUU	27076
6599	4431	CUUUCGCU C GAGCCUGU	8701	ACAGGCUC CUGAUGAG	GCCGUUAGGC	CGAA AGCGAAAG	27077
6608	4422	GAGCCUGU A AUUUCUGC	8702	GCAGAAU CUGAUGAG	GCCGUUAGGC	CGAA ACAGGCUC	27078
6611	4419	CCUGUAU U UCUGCAUC	8703	GAUGCAGA CUGAUGAG	GCCGUUAGGC	CGAA AUUACAGG	27079
6612	4418	CUGUAAU U CUGCAUCA	8704	UGAUGCAG CUGAUGAG	GCCGUUAGGC	CGAA AAUUCAG	27080
6613	4417	UGUAAUU C UGCAUCAC	8705	GUGAUGCA CUGAUGAG	GCCGUUAGGC	CGAA AAAUACA	27081
6619	4411	UUCUGCAU C ACUUUCCC	8706	GGGAAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUGCAGAA	27082
6623	4407	GCAUCACU U UCCAGGA	8707	UCCUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAGUUGC	27083
6624	4406	CAUCACUU U CCCAGGAA	8708	UUCCUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGUGAUG	27084
6625	4405	AUCACUUU C CCAGGAAA	8709	UUUCCUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAGUGAU	27085
6637	4393	GGAAAGU C CGCCGUUC	8710	GAACGGCG CUGAUGAG	GCCGUUAGGC	CGAA ACAUUUCC	27086
6644	4386	UCCGCCGU U CUCUCAAU	8711	AUUGAGAG CUGAUGAG	GCCGUUAGGC	CGAA ACGGCGGA	27087
6645	4385	CCGCCGUU C UCUCAAUC	8712	GAUUGAGA CUGAUGAG	GCCGUUAGGC	CGAA AACGGCGG	27088
6647	4383	GCCGUUCU C UCAAUCCA	8713	UGGAUUGA CUGAUGAG	GCCGUUAGGC	CGAA AGAACGGC	27089
6649	4381	CGUUCUCU C AAUCCACA	8714	UGUGGAU CUGAUGAG	GCCGUUAGGC	CGAA AGAGAACG	27090
6653	4377	CUCUCAU C CACAUAUC	8715	GAUAUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGAGAG	27091
6659	4371	AUCCACAU A UCUGUUGA	8716	UCAACAGA CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGAU	27092
6661	4369	CCACAUAU C UGUUGAUU	8717	AAUCAACA CUGAUGAG	GCCGUUAGGC	CGAA AUUUGUGG	27093
6665	4365	AUAUCUGU U GAUUUCCC	8718	GGGAAUUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGAUU	27094
6669	4361	CUGUUGAU U UCCAGGAA	8719	UUCUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AUCAACAG	27095
6670	4360	UGUUGAUU U CCCAGAAA	8720	UUUCUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAUCAACA	27096
6671	4359	GUUGAUUU C CCAGAAAU	8721	AUUUCUGG CUGAUGAG	GCCGUUAGGC	CGAA AAUUAAC	27097
6680	4350	CCAGAAAU C ACGAAAGC	8722	GCUUUCGU CUGAUGAG	GCCGUUAGGC	CGAA AUUUCUGG	27098
6710	4320	CCCGCAU A GUCAUUGG	8723	CCAAUGAC CUGAUGAG	GCCGUUAGGC	CGAA AUUCGCGG	27099
6713	4317	GCGAUAGU C AUUGGAU	8724	AUUCCAUC CUGAUGAG	GCCGUUAGGC	CGAA ACTUUCGC	27100
6716	4314	AUAGUCAU U GGAAUGGC	8725	GCCAUUC CUGAUGAG	GCCGUUAGGC	CGAA AUGACUUA	27101
6733	4297	CAUGGAGU C AAUGUCAA	8726	UUGACAUC CUGAUGAG	GCCGUUAGGC	CGAA ACUCCAUG	27102
6739	4291	GUCAAUGU C AAGCUCUG	8727	CAGAGCUU CUGAUGAG	GCCGUUAGGC	CGAA ACAUUGAC	27103
6745	4285	GUCAAAGU C UGCCAGCC	8728	GGCUGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGCUUGAC	27104
6756	4274	CCAGCCCU C CGACGAUG	8729	CAUCGUC CUGAUGAG	GCCGUUAGGC	CGAA AGGGCUGG	27105
6773	4257	GCAACAUC U AGGCCGAC	8730	GUCGGCCU CUGAUGAG	GCCGUUAGGC	CGAA AUGUUUGC	27106
6774	4256	CAAACAUC A GGCCGACA	8731	UGUCGGCC CUGAUGAG	GCCGUUAGGC	CGAA AAUGUUUG	27107

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6788	4242	ACAGCUGU C AUCACUUC	8732	GAAGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAGCUGU	27108
6791	4239	GCUGUCAU C ACUUCAGU	8733	ACUGAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUGACAGC	27109
6795	4235	UCAUCACU U CAGUUGCG	8734	CGCAACUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUGA	27110
6796	4234	CAUCACUU C AGUUGCGG	8735	CCGCAACTU CUGAUGAG	GCCGUUAGGC	CGAA AAGUGAUG	27111
6800	4230	ACUUCAGU U GCGGGCCA	8736	UGGCCCGC CUGAUGAG	GCCGUUAGGC	CGAA ACUGAAGU	27112
6810	4220	CGGGCCAU C CGCGUUUA	8737	UAAACGCG CUGAUGAG	GCCGUUAGGC	CGAA AUGGCCCG	27113
6816	4214	AUCCGCGU U UACGGUUG	8738	CAACCGUA CUGAUGAG	GCCGUUAGGC	CGAA ACGCCGAU	27114
6817	4213	UCCGCGUU U ACGGUUGG	8739	CCAACCGU CUGAUGAG	GCCGUUAGGC	CGAA AACGCCGA	27115
6818	4212	CCGCGUUU A CGGUUGG	8740	CCCAACCG CUGAUGAG	GCCGUUAGGC	CGAA AAACGCCG	27116
6823	4207	UUUACGGU U GGAUCAC	8741	GUGAUCCC CUGAUGAG	GCCGUUAGGC	CGAA ACCGUAAA	27117
6829	4201	GUUGGGAU C ACAUGCAA	8742	UUGCAUGU CUGAUGAG	GCCGUUAGGC	CGAA AUCCCAAC	27118
6839	4191	CAUGCAAU C AGUCCAGC	8743	GCUGGACU CUGAUGAG	GCCGUUAGGC	CGAA AUUGCAUG	27119
6843	4187	CAUUCAGU C CAGCAGCA	8744	UGCUCUG CUGAUGAG	GCCGUUAGGC	CGAA ACUGAUUG	27120
6857	4173	GCAAGGAU C AUGGGGUU	8745	AACCCCAU CUGAUGAG	GCCGUUAGGC	CGAA AUCCUUGC	27121
6865	4165	CAUGGGGU U GAAAAGUC	8746	GACUUUUC CUGAUGAG	GCCGUUAGGC	CGAA ACCCCAUG	27122
6873	4157	UGAAAAGU C CUGUUGAG	8747	CUCAACAG CUGAUGAG	GCCGUUAGGC	CGAA ACUUUUCA	27123
6878	4152	AGUCCUGU U GAGGCUAG	8748	CUAGCCUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGGACU	27124
6885	4145	UUGAGGCU A GAGCCAAG	8749	CUUGGCUC CUGAUGAG	GCCGUUAGGC	CGAA AGCCUCA	27125
6897	4133	CCAAGCAU A GCAGACU	8750	AAGUCUGC CUGAUGAG	GCCGUUAGGC	CGAA AUGCUUGG	27126
6905	4125	AGCAGACU U GCUCUUU	8751	AAAGGAGC CUGAUGAG	GCCGUUAGGC	CGAA AGUCUGCU	27127
6909	4121	GACUUGCU C CUUUUUU	8752	AAAGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGCAAGUC	27128
6912	4118	UUGCUCU U UCUUUUU	8753	AAAAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCAA	27129
6913	4117	UGCUCUU U CUUUUUU	8754	CAAAAAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGCA	27130
6914	4116	GCUCUUU C UUUUUUG	8755	GCAAAAAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGGAGC	27131
6916	4114	UCCUUUCU U UUUUGCAG	8756	CUGCAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGGA	27132
6917	4113	CCUUUCUU U UUUUGCAG	8757	GCUGCAAA CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGG	27133
6918	4112	CUUUCUU U UUGCAGCU	8758	AGCUGCAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGAAAG	27134
6919	4111	UUUCUUU U UGCAGCUG	8759	CAGCUGCA CUGAUGAG	GCCGUUAGGC	CGAA AAAAGAAA	27135
6920	4110	UUUCUUU U GCAGCUGC	8760	GCAGUGCC CUGAUGAG	GCCGUUAGGC	CGAA AAAAGAAA	27136
6932	4098	GCUGCACU C CUCUUCUC	8761	GAGAAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGUAGAGC	27137
6935	4095	GCACUCCU C UUCUCCCU	8762	AGGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGUGC	27138
6937	4093	ACUCCUCU U CUCCUGA	8763	UCAGGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAGGAGU	27139
6938	4092	CUCCUCUU C UCCUGAU	8764	AUCAGGGA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGGAG	27140
6940	4090	CCUCUUU C CCUGAUA	8765	UGAUCAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAAGAGG	27141
6947	4083	UCCUGAU C AAGCUGCC	8766	GGCAGCUU CUGAUGAG	GCCGUUAGGC	CGAA AUCAGGGA	27142
6957	4073	AGCUGCCU A UUCGACC	8767	GGUCGGAA CUGAUGAG	GCCGUUAGGC	CGAA AGGCAGCU	27143
6959	4071	CUGCCUUA U CCGACCAU	8768	AUGGUCGG CUGAUGAG	GCCGUUAGGC	CGAA AUAGGCAG	27144
6960	4070	UGCCUAU C CGACCAUC	8769	GAUGGUCG CUGAUGAG	GCCGUUAGGC	CGAA AAUAGGCA	27145
6968	4062	CCGACCAU C AACAGCAG	8770	CUGCUGUU CUGAUGAG	GCCGUUAGGC	CGAA AUGGUCGG	27146
6978	4052	ACAGCAGU A UCCUGUAC	8771	GUACAGGA CUGAUGAG	GCCGUUAGGC	CGAA ACUGCUGU	27147
6980	4050	AGCAGUAU C CUGUACAC	8772	GUGUACAG CUGAUGAG	GCCGUUAGGC	CGAA AUACUGCU	27148
6985	4045	UAUCCUGU A CACAUCCA	8773	UGGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA ACAGGAUA	27149
6991	4039	GUACACAU C CAGAUUCA	8774	UGAAUCUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUGUAC	27150
6997	4033	AUCCAGAU U CAAGCAUC	8775	GAUGCUUG CUGAUGAG	GCCGUUAGGC	CGAA AUCUGGAU	27151
6998	4032	UCCAGAUU C AAGCAUCU	8776	AGAUGCUU CUGAUGAG	GCCGUUAGGC	CGAA AAUCUGGA	27152
7005	4025	UCAAGCAU C UCAGCCCG	8777	CGGGCUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGCUUGA	27153
7007	4023	AAGCAUCU C AGCCCGGG	8778	CCCGGGCU CUGAUGAG	GCCGUUAGGC	CGAA AGAUGCUU	27154
7019	4011	CCGGGUGU U AGCAGGGC	8779	GCCCUGCU CUGAUGAG	GCCGUUAGGC	CGAA ACACCCGG	27155
7020	4010	CGGGUGUU A GCAGGGCU	8780	AGCCUCUG CUGAUGAG	GCCGUUAGGC	CGAA AACACCCG	27156
7029	4001	GCAGGGCU A GCAGCGGA	8781	UCCGCGUC CUGAUGAG	GCCGUUAGGC	CGAA AGCCCGUC	27157
7048	3982	AACCACGU U UGAUGUCG	8782	CGACAUA CUGAUGAG	GCCGUUAGGC	CGAA ACGUGGUU	27158
7049	3981	ACCACGUU U GAUGUCGU	8783	UCCACAUC CUGAUGAG	GCCGUUAGGC	CGAA AACGUGGU	27159
7055	3975	UUUGAUGU C GUUGUGAA	8784	UCCACAAC CUGAUGAG	GCCGUUAGGC	CGAA ACAUCAAA	27160
7058	3972	GAUGUCGU U GUGAAUGU	8785	ACAUUCAC CUGAUGAG	GCCGUUAGGC	CGAA ACGACAUC	27161
7067	3963	GUGAAUGU U AUGGCUCU	8786	AGAGCCAU CUGAUGAG	GCCGUUAGGC	CGAA ACAUUCAC	27162
7068	3962	UGAAUGUU A UGGCUCUC	8787	GAGAGCCA CUGAUGAG	GCCGUUAGGC	CGAA AACAUUCA	27163
7074	3956	UUAUGGCU C UCAGUAUC	8788	GAUACUGA CUGAUGAG	GCCGUUAGGC	CGAA AGCCAUAA	27164
7076	3954	AUGGCUCU C AGUAUCAU	8789	AUGAUACU CUGAUGAG	GCCGUUAGGC	CGAA AGAGCCAU	27165
7080	3950	CUCUCAGU A UCAUCCAA	8790	UUGGAUGA CUGAUGAG	GCCGUUAGGC	CGAA ACUGAGAG	27166
7082	3948	CUCAGUAU C AUCCAAGC	8791	GUUGGAU CUGAUGAG	GCCGUUAGGC	CGAA AUACUGAG	27167
7085	3945	AGUAUCAU C CAAGCUAC	8792	GCUAGCUG CUGAUGAG	GCCGUUAGGC	CGAA AUGAUACU	27168
7092	3938	UCCAAGCU A CCGCCAGU	8793	ACUGGCGG CUGAUGAG	GCCGUUAGGC	CGAA AGCUUGGA	27169

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7105	3925	CAGUGAAU U CAACACAU	8794	AUGUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AUUCACUG	27170
7106	3924	AGUGAAUU C AACACAUC	8795	GAUGUGUU CUGAUGAG	GCCGUUAGGC	CGAA AAUUCACU	27171
7114	3916	CAACACAU C AGGGAUCU	8796	AGAUGCCU CUGAUGAG	GCCGUUAGGC	CGAA AUGUGUUG	27172
7121	3909	UCAGGGAU C UCCCAGAG	8797	CUCUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AUCCCUGA	27173
7123	3907	AGGGAUCU C CCAGAGCA	8798	UGCUCUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAUCCCU	27174
7136	3894	AGCAGAAU U UGGCGGGC	8799	GCCCGCCA CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGCU	27175
7137	3893	GCAGAAUU U GGCGGGCA	8800	UGCCCGCC CUGAUGAG	GCCGUUAGGC	CGAA AAUUCUGC	27176
7147	3883	GCGGGCAU C GUGAUAAG	8801	CUUAUCAC CUGAUGAG	GCCGUUAGGC	CGAA AUGCCCGC	27177
7153	3877	AUCGUGAU A AGCCAUUU	8802	AAAUGGCU CUGAUGAG	GCCGUUAGGC	CGAA AUCACGAU	27178
7160	3870	UAAGCCAU U UGAAAGAA	8803	UUCUUUCA CUGAUGAG	GCCGUUAGGC	CGAA AUGGCUUA	27179
7161	3869	AAGCCAUU U GAAAGAAA	8804	UUUCUUUC CUGAUGAG	GCCGUUAGGC	CGAA AAUGGCUU	27180
7184	3846	GCCAACAU C AACAAAUA	8805	AUUUUGUU CUGAUGAG	GCCGUUAGGC	CGAA AUGUUGGC	27181
7195	3835	CAAAAUGU U CUCCUGGU	8806	ACCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACAUUUUG	27182
7196	3834	AAAAUGUU C UCCUGGUU	8807	AACCAGGA CUGAUGAG	GCCGUUAGGC	CGAA AACAUUUU	27183
7198	3832	AAUGUUCU C CUGGUUGG	8808	CCAACCAG CUGAUGAG	GCCGUUAGGC	CGAA AGAACAUU	27184
7204	3826	CUCCUGGU U GGUCCAUC	8809	GAUGGACC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGGAG	27185
7208	3822	UGGUUGGU C CAUCUCGC	8810	GCGAGAUG CUGAUGAG	GCCGUUAGGC	CGAA ACCAACCA	27186
7212	3818	UGGUCCAU C UCGUUUG	8811	CAAAGCGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGACCA	27187
7214	3816	GUCCAUCU C GCUUUGAG	8812	CUCAAAGC CUGAUGAG	GCCGUUAGGC	CGAA AGAUGGAC	27188
7218	3812	AUCUCGCU U UGAGAAAC	8813	GUUUCUCA CUGAUGAG	GCCGUUAGGC	CGAA AGCGAGAU	27189
7219	3811	UCUCGCUU U GAGAAACG	8814	CGUUUCUC CUGAUGAG	GCCGUUAGGC	CGAA AAGCGAGA	27190
7238	3792	GCCACCAU A AACACUGG	8815	CCAGUGUU CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGCG	27191
7248	3782	ACACUGGU U GUAUCUUG	8816	CAAGAUAC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGUGU	27192
7251	3779	CUGGUUGU A UCUUGAAG	8817	CUUCAAGA CUGAUGAG	GCCGUUAGGC	CGAA ACAACCAG	27193
7253	3777	GGUUGUUA C UUGAAGGU	8818	ACCUUCA A CUGAUGAG	GCCGUUAGGC	CGAA AUACAACC	27194
7255	3775	UUGUAUCU U GAAGGUCG	8819	CGACCUUC CUGAUGAG	GCCGUUAGGC	CGAA AGAUACAA	27195
7262	3768	UUGAAGGU C GCCAUGAG	8820	CUCAUGGC CUGAUGAG	GCCGUUAGGC	CGAA ACCUUCAA	27196
7281	3749	CCAAGUGU A CCACGUCU	8821	AGACGUGG CUGAUGAG	GCCGUUAGGC	CGAA ACACUUGG	27197
7288	3742	UACCACGU C UCCUCCCG	8822	CGGGAGGA CUGAUGAG	GCCGUUAGGC	CGAA ACGUGGUA	27198
7290	3740	CACGUCU C CUCCGAA	8823	UUCGGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGACGUGG	27199
7293	3737	CGUCUCCU C CCGAAUUA	8824	UAAUUCGG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGACG	27200
7300	3730	UCCCGAAU U AGAUUCUG	8825	CAGAAUCU CUGAUGAG	GCCGUUAGGC	CGAA AUUCGGGA	27201
7301	3729	CCCGAAUU A GAUUCUGC	8826	GCAGAAUC CUGAUGAG	GCCGUUAGGC	CGAA AAUUCGGG	27202
7305	3725	AAUUGAUU U CUGCGAAA	8827	UUUCGCAG CUGAUGAG	GCCGUUAGGC	CGAA AUUCUAAU	27203
7306	3724	AUUGAAUU C UGCGAAAG	8828	CUUUCGCA CUGAUGAG	GCCGUUAGGC	CGAA AAUCUAAU	27204
7336	3694	GAUGACAU A GCGUAACA	8829	UGUUAACG CUGAUGAG	GCCGUUAGGC	CGAA AUGUCAUC	27205
7341	3689	CAUAGCGU A ACACAUCA	8830	UGAUGUGU CUGAUGAG	GCCGUUAGGC	CGAA ACGCUAUG	27206
7348	3682	UAACACAU C AGUGUAAG	8831	UUUACACU CUGAUGAG	GCCGUUAGGC	CGAA AGGAGUUA	27207
7354	3676	AUCAGUGU A AGUAAUGC	8832	GCAUUACU CUGAUGAG	GCCGUUAGGC	CGAA ACACUGAU	27208
7358	3672	GUGUAAGU A AUGCCCCC	8833	GGGGGCAU CUGAUGAG	GCCGUUAGGC	CGAA ACTUACAC	27209
7380	3650	CCAGGACU A GCAGAGCA	8834	UGCUCUGC CUGAUGAG	GCCGUUAGGC	CGAA AGUCCUGG	27210
7391	3639	AGAGCAAU C AGUAUAGC	8835	GCUAUACU CUGAUGAG	GCCGUUAGGC	CGAA AUUGCUCU	27211
7395	3635	CAAUCAGU A UAGCUGGC	8836	GCCAGCUA CUGAUGAG	GCCGUUAGGC	CGAA ACUGAUUG	27212
7397	3633	AUCAGUAU A GCUGGCAU	8837	AUGCCAGC CUGAUGAG	GCCGUUAGGC	CGAA AUACUGAU	27213
7412	3618	AUGCUGAU C UUGGCUGU	8838	ACAGCCAA CUGAUGAG	GCCGUUAGGC	CGAA AUCAGCAU	27214
7414	3616	GCUGAUCU U GGCUGUCC	8839	GGACAGCC CUGAUGAG	GCCGUUAGGC	CGAA AGAUCAGC	27215
7421	3609	UUGGCUGU C CACCUCUU	8840	AAGAGGUG CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCAA	27216
7427	3603	GUCCACCU C UUGCGAAG	8841	CUUCGCAA CUGAUGAG	GCCGUUAGGC	CGAA AGGUGGAC	27217
7429	3601	CCACCUCU U GCGAAGGA	8842	UCCUUCGC CUGAUGAG	GCCGUUAGGC	CGAA AGAGGUGG	27218
7441	3589	AAGGACCU C CUGGGUGG	8843	CCACCCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGUCCUU	27219
7486	3544	AAAAGGGU C AAUCAUAU	8844	AUAUGAUU CUGAUGAG	GCCGUUAGGC	CGAA ACCCUUUU	27220
7490	3540	GGGUCAAU C AUAUCAGC	8845	GCUGAUUU CUGAUGAG	GCCGUUAGGC	CGAA AUUGACCC	27221
7493	3537	UCAUCAU A UCAGCAUU	8846	AAUGCUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGAUUGA	27222
7495	3535	AAUCAUAU C AGCAUUAU	8847	AUAUUGCU CUGAUGAG	GCCGUUAGGC	CGAA AUAUGAUU	27223
7501	3529	AUCAGCAU U AUAAGCAU	8848	AUGCUUAU CUGAUGAG	GCCGUUAGGC	CGAA AUGCUGAU	27224
7502	3528	UCAGCAUU A UAAGCAUU	8849	AAUGCUUA CUGAUGAG	GCCGUUAGGC	CGAA AAUGCUGA	27225
7504	3526	AGCAUUAU A AGCAUUCA	8850	UGAAUGCU CUGAUGAG	GCCGUUAGGC	CGAA AUAUUGCU	27226
7510	3520	AUAAGCAU U CACUUGUG	8851	CACAAGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGCUUAU	27227
7511	3519	UAAGCAUU C ACUUGUGA	8852	UCACAAGU CUGAUGAG	GCCGUUAGGC	CGAA AAUGCUUA	27228
7515	3515	CAUUCACU U GUGACUGC	8853	GCAGUCAC CUGAUGAG	GCCGUUAGGC	CGAA AGUGAAUG	27229
7532	3498	ACGAGGGU C UUUUCAUC	8854	GAUGAAAA CUGAUGAG	GCCGUUAGGC	CGAA ACCCUCGU	27230
7534	3496	GAGGGUCU U UUCAUCAU	8855	AUGAUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGACCUCU	27231

7535	3495	AGGUCUU U UCAUCAUG	8856	CAUGAUGA CUGAUGAG	GCCGUUAGGC	CGAA	AAGACCCU	27232
7536	3494	GGGUCUUU U CAUCAUGU	8857	ACAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA	AAAGACCC	27233
7537	3493	GGUCUUUU C AUCAUGUC	8858	GACAUGAU CUGAUGAG	GCCGUUAGGC	CGAA	AAAAGACC	27234
7540	3490	CUUUUCAU C AUGUCUCU	8859	AGAGACAU CUGAUGAG	GCCGUUAGGC	CGAA	AUGAAAAG	27235
7545	3485	CAUCAUGU C UCUGUGGU	8860	ACCACAGA CUGAUGAG	GCCGUUAGGC	CGAA	ACAUGAUG	27236
7547	3483	UCAUGUCU C UGUGGUCU	8861	AGACCACA CUGAUGAG	GCCGUUAGGC	CGAA	AGACAUGA	27237
7554	3476	UCUGUGGU C UGAUCUCC	8862	GGAGAUGA CUGAUGAG	GCCGUUAGGC	CGAA	ACCACAGA	27238
7559	3471	GGUCUGAU C UCCAUAAC	8863	GGUAUGGA CUGAUGAG	GCCGUUAGGC	CGAA	AUCAGACC	27239
7561	3469	UCUGAUCU C CAUACCAU	8864	AUGGUAUG CUGAUGAG	GCCGUUAGGC	CGAA	AGAUCAGA	27240
7565	3465	AUCUCCAU A CCAUACCA	8865	UGGUAUGG CUGAUGAG	GCCGUUAGGC	CGAA	AUGGAGAU	27241
7570	3460	CAUACCAU A CCAACAGC	8866	GCUGUUGG CUGAUGAG	GCCGUUAGGC	CGAA	AUGGUAUG	27242
7585	3445	GCCGUGU C AGUUUGGU	8867	ACCAACU CUGAUGAG	GCCGUUAGGC	CGAA	ACAGCGGC	27243
7589	3441	CUGUCAGU U UGGUAGCG	8868	CGCUACCA CUGAUGAG	GCCGUUAGGC	CGAA	ACUGACAG	27244
7590	3440	UGUCAGUU U GGUAGCGC	8869	GCGCUACC CUGAUGAG	GCCGUUAGGC	CGAA	AACUGACA	27245
7594	3436	AGUUUGGU A GCGCAGUG	8870	CACUGCGC CUGAUGAG	GCCGUUAGGC	CGAA	ACCAAACU	27246
7608	3422	GUGGUGGU A AGGUGCAG	8871	CUGCACCU CUGAUGAG	GCCGUUAGGC	CGAA	ACCACCAC	27247
7619	3411	GUGCAGCU C CUGCAGCA	8872	UGCUGCAG CUGAUGAG	GCCGUUAGGC	CGAA	AGCUGCAC	27248
7633	3397	GCACCAAU C UGUUAUCA	8873	UGAUAACA CUGAUGAG	GCCGUUAGGC	CGAA	AUUGGUGC	27249
7637	3393	CAAUCUGU U AUCAACUU	8874	AAGUUGAU CUGAUGAG	GCCGUUAGGC	CGAA	ACAGAUUG	27250
7638	3392	AAUCUGUU A UCAACUUU	8875	AAAGUUGA CUGAUGAG	GCCGUUAGGC	CGAA	ACAGAUUU	27251
7640	3390	UCUGUUAU C AACUUUCC	8876	GGAAAGUU CUGAUGAG	GCCGUUAGGC	CGAA	AUAACAGA	27252
7645	3385	UAUCAACU U UCCGCUCU	8877	AGAGCGGA CUGAUGAG	GCCGUUAGGC	CGAA	AGUUGAUA	27253
7646	3384	AUCAACUU U CCGCUCUC	8878	GAGAGCGG CUGAUGAG	GCCGUUAGGC	CGAA	AAGUUGAU	27254
7647	3383	UCAACUUU C CGCUCUCU	8879	AGAGAGCG CUGAUGAG	GCCGUUAGGC	CGAA	AAAGUUGA	27255
7652	3378	UUUCCGCU C UCUGUGGU	8880	ACCACAGA CUGAUGAG	GCCGUUAGGC	CGAA	AGCGGAAA	27256
7654	3376	UCCGCUCU C UGUGGUGG	8881	CCACCACA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGCGGA	27257
7677	3353	UGGCGAGU C CACGGUGU	8882	ACACCGUG CUGAUGAG	GCCGUUAGGC	CGAA	ACCUGCCA	27258
7686	3344	CACGGUGU C CGCAGCUC	8883	GAGCUGCG CUGAUGAG	GCCGUUAGGC	CGAA	ACACCGUG	27259
7694	3336	CCGCAGCU C UCACUCAG	8884	CUGAGUGA CUGAUGAG	GCCGUUAGGC	CGAA	AGCUGCGG	27260
7696	3334	GCAGCUCU C ACUCAGGG	8885	CCCUGAGU CUGAUGAG	GCCGUUAGGC	CGAA	AGAGCUGC	27261
7700	3330	CUCUCACU C AGGGUGAC	8886	GUCACCCU CUGAUGAG	GCCGUUAGGC	CGAA	AGUGAGAG	27262
7712	3318	GUGACCGU A GUUCCUGG	8887	CCAGGAAC CUGAUGAG	GCCGUUAGGC	CGAA	ACGGUCAC	27263
7715	3315	ACCGUAGU U CCUGGGCA	8888	UGCCCAAG CUGAUGAG	GCCGUUAGGC	CGAA	ACUACGGU	27264
7716	3314	CCGUAGUU C CUGGGCAG	8889	CUGCCCAG CUGAUGAG	GCCGUUAGGC	CGAA	AACUACGG	27265
7726	3304	UGGGCAGU A AUCGAAGU	8890	ACUUCGAU CUGAUGAG	GCCGUUAGGC	CGAA	ACUGCCCA	27266
7729	3301	GCAGUAAU C GAAGUCAA	8891	UUGACUUC CUGAUGAG	GCCGUUAGGC	CGAA	AUUCUGGC	27267
7735	3295	AUCGAAGU C AAUCUCUA	8892	UAGAGAUU CUGAUGAG	GCCGUUAGGC	CGAA	ACTUCGAU	27268
7739	3291	AAGUCAAU C UCUACCCG	8893	CGGGUAGA CUGAUGAG	GCCGUUAGGC	CGAA	AUUGACUU	27269
7741	3289	GUCAAUUC C UACCCGGC	8894	GCCGGGUA CUGAUGAG	GCCGUUAGGC	CGAA	AGAUUGAC	27270
7743	3287	CAAUCUCU A CCCGGCCU	8895	AGGCCGGG CUGAUGAG	GCCGUUAGGC	CGAA	AGAGAUUG	27271
7752	3278	CCCGGCCU U CGUCCCAU	8896	AUGGGACG CUGAUGAG	GCCGUUAGGC	CGAA	AGGCCGGG	27272
7753	3277	CCGGCCUU C GUCCCAUG	8897	CAUGGGAG CUGAUGAG	GCCGUUAGGC	CGAA	AAGGCCGG	27273
7756	3274	GCCUUCGU C CCAUGGGC	8898	GCCCAUGG CUGAUGAG	GCCGUUAGGC	CGAA	ACGAAGGC	27274
7771	3259	CCCCUGU U UUGUGUCU	8899	AGACACAA CUGAUGAG	GCCGUUAGGC	CGAA	ACCAGGGC	27275
7772	3258	CCUUGGUU U UGUGUCUU	8900	AAGACACA CUGAUGAG	GCCGUUAGGC	CGAA	AACCAGGG	27276
7773	3257	CCUGGUTU U GUGUCUUG	8901	CAAGACAC CUGAUGAG	GCCGUUAGGC	CGAA	AAACCAGG	27277
7778	3252	UUUGUGU C UUGUACCC	8902	GGGUACAA CUGAUGAG	GCCGUUAGGC	CGAA	ACACAAA	27278
7780	3250	UUGUGUCU U GUACCCAG	8903	CUGGGUAC CUGAUGAG	GCCGUUAGGC	CGAA	AGACACAA	27279
7783	3247	UGUCUUGU A CCCAGGUC	8904	GACCUGGG CUGAUGAG	GCCGUUAGGC	CGAA	ACAAGACA	27280
7791	3239	ACCCAGGU C UCCGAUUG	8905	CAAUCCGA CUGAUGAG	GCCGUUAGGC	CGAA	ACCUGGGU	27281
7793	3237	CCAGGUCU C CGAUUGUG	8906	CACAUCGG CUGAUGAG	GCCGUUAGGC	CGAA	AGACUGG	27282
7798	3232	UCUCCGAU U GUGAUUGC	8907	GCAAUAC CUGAUGAG	GCCGUUAGGC	CGAA	AUCCGAGA	27283
7804	3226	AUUGUGAU U GCUUCGUG	8908	CACGAAGC CUGAUGAG	GCCGUUAGGC	CGAA	AUCACAAU	27284
7808	3222	UGAUUGCU U CGUGGUCC	8909	GGACCACG CUGAUGAG	GCCGUUAGGC	CGAA	AGCAAUCA	27285
7809	3221	GAUUGCUU C GUGGUCCC	8910	GGGACCAC CUGAUGAG	GCCGUUAGGC	CGAA	AAGCAUUC	27286
7815	3215	UUCGUGGU C CCGCCAGU	8911	ACUGGCGG CUGAUGAG	GCCGUUAGGC	CGAA	ACCACGAA	27287
7833	3197	UGACUGGU A UUAUCAAG	8912	CUUGAUAA CUGAUGAG	GCCGUUAGGC	CGAA	ACCAGUCA	27288
7835	3195	ACUGUAU U AUCAAGUC	8913	GACUUGAU CUGAUGAG	GCCGUUAGGC	CGAA	AUACCAGU	27289
7836	3194	CUGGUUAU A UCAAGUCA	8914	UGACUUGA CUGAUGAG	GCCGUUAGGC	CGAA	AUACCAG	27290
7838	3192	GGUAUUUA C AAGUCACU	8915	AGUGACUU CUGAUGAG	GCCGUUAGGC	CGAA	AUAUAUAC	27291
7843	3187	UAUCAAGU C ACUCUCA	8916	UUGAGAGU CUGAUGAG	GCCGUUAGGC	CGAA	ACUUGAUA	27292
7847	3183	AAGUCACU C UCAAGGAU	8917	AUCCUUGA CUGAUGAG	GCCGUUAGGC	CGAA	AGUGACUU	27293

Table VIII

7849	3181	GUCACUCU C AAGGAUUC	8918	GAAUCCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AGAGUGAC	27294
7856	3174	UCAAGGAU U CCAUCGCC	8919	GGCGAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AUCCUUGA	27295
7857	3173	CAAGGAUU C CAUCGCCC	8920	GGGCGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AAUCCUUG	27296
7861	3169	GAUUCCAU C GCCCCACA	8921	UGUGGGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AUGGAAUC	27297
7874	3156	CACAAGGU A UGCGUCUC	8922	GAGACGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ACCUUGUG	27298
7880	3150	GUAGCCGU C UCAGGCCA	8923	UGGCCUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ACGCAUAC	27299
7882	3148	AUGCGUCU C AGGCCACG	8924	CGUGGCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AGACGCAU	27300
7892	3138	GGCCACGU A CAUGAUUU	8925	AAAUCAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ACGUGGCC	27301
7899	3131	UACAUGAU U UGACUUCA	8926	UGAAGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AUCAUGUA	27302
7900	3130	ACAUGAUU U GACUUCAC	8927	GUGAAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AAUCAUGU	27303
7905	3125	AUUUGACU U CACCCAGA	8928	UCUGGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AGUCAAAU	27304
7906	3124	UUUGACUU C ACCCAGAA	8929	UUCUGGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AAGUCAAA	27305
7922	3108	ACUGCCCU U UCAAGCUU	8930	AAGCUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AGGGCAGU	27306
7923	3107	CUGCCCUU U CAAGCUUC	8931	GAAGCUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AAGGGCAG	27307
7924	3106	UGCCCUUU C AAGCUUCC	8932	GGAAGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AAAGGGCA	27308
7930	3100	UUCAAGCU U CCACGUUU	8933	AUACGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AGCUUGAA	27309
7931	3099	UCAAGCUU C CACGUUUC	8934	GAUACGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AAGCUUGA	27310
7937	3093	UUCACAGU A UCAUUGAG	8935	CUCAAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ACGUGGAA	27311
7939	3091	CCACGUUU C AUUGAGCC	8936	GGCUCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AUACGUGG	27312
7942	3088	CGUAUCAU U GAGCCUGC	8937	GCAGGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AUGAUACG	27313
7952	3078	AGCCUGCU U UCAAUCCA	8938	UGGAUGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AGAGGCUU	27314
7953	3077	GCCUGCUU U CAAUCCAA	8939	UUGGAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AAGCAGGC	27315
7954	3076	CCUGCUUU C AAUCCAAU	8940	AUUGGAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AAAGCAGG	27316
7958	3072	CUUUCAAU C CAUAGGA	8941	UCCUAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AUUGAAAG	27317
7963	3067	AAUCCAAU A GGACAGGU	8942	ACCUGUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AUUGGAUU	27318
7972	3058	GGACAGGU C ACUGUGGA	8943	UCCACAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ACCUGUCC	27319
7982	3048	CUGUGGAU C GCCAAGUU	8944	AACUUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AUCCACAG	27320
7990	3040	CGCCAAGU U GUUCUUGA	8945	UCAAGAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ACUUGGCG	27321
7993	3037	CAAGUUGU U CUUGACAG	8946	CUGUCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ACUUGUUG	27322
7994	3036	AAGUUGUU C UUGACAGC	8947	GCUGUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AACAACUU	27323
7996	3034	GUUGUUCU U GACAGCCG	8948	CGGCGUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AGAAACAC	27324
8006	3024	ACAGCCGU U CCAAUGAU	8949	AUCAUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ACGGCUGU	27325
8007	3023	CAGCCGUU C CAAUGAUC	8950	GAUCAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AACGGCUG	27326
8015	3015	CAAUGAUU C UUCGAGUC	8951	GACUCGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AUCAUUGG	27327
8017	3013	AAUGAUUU U CGAGUCAC	8952	GUGACUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AGAUAUUA	27328
8018	3012	AUGAUUUU C GAGUCACA	8953	UGUGACUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AAGAUAUA	27329
8023	3007	CUUCGAGU C ACAUUCAG	8954	CUGAAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ACUCGAAG	27330
8028	3002	AGUCACAU U CAGUUGUG	8955	CACAACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AUGUGACU	27331
8029	3001	GUCACAUU C AGUUGUGU	8956	ACACAACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AAUGUGAC	27332
8033	2997	CAUUCAGU U GUGUUGCU	8957	AGCAACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ACUGAAUG	27333
8038	2992	AGUUGUGU U GCUCUCUC	8958	GAGAGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ACACAACU	27334
8042	2988	GUGUUGCU C UCUCUGAC	8959	GUCAGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AGCAACAC	27335
8044	2986	GUUGCUCU C UCUGACCU	8960	AGGUCAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AGAGCAAC	27336
8046	2984	UGUCUCUC C UGACCUUC	8961	GAAAGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AGAGAGCA	27337
8053	2977	UCUGACCU U CAGGAACA	8962	UGUUCUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AGGUCAGA	27338
8054	2976	CUGACCUU C AGGAACAU	8963	AUGUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AAGGUCAG	27339
8063	2967	AGGAACAU C CGAGUGCU	8964	AGCACUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AUGUUCU	27340
8085	2945	GACCAAAU C CAAAUAUC	8965	GGAUUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AUUUGGUC	27341
8092	2938	UCCAAAUU C CUCCACUU	8966	AAGUGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AUUUUGGA	27342
8095	2935	AAAUAUCU C CACUUCUA	8967	UAGAAGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AGGAUUUU	27343
8100	2930	CCUCCACU U CUAAGCUA	8968	UAGCUUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AGUGGAGG	27344
8101	2929	CUCCACUU C UAAGCUAU	8969	AUAGCUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AAGUGGAG	27345
8103	2927	CCACUUCU A AGCUAUUC	8970	GAAUAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AGAAGUUG	27346
8108	2922	UCUAAGCU A UUCAAGC	8971	GCUUGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AGCUUAGA	27347
8110	2920	UAAGCUAU U CCAAGCGC	8972	GCGCUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AUAGCUUA	27348
8111	2919	AAGCUAUU C CAAGCGCG	8973	CGCGCUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AAUAGCUU	27349
8122	2908	AGCGCGAU U CUGAGUCG	8974	CGACUCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AUCGCGCU	27350
8123	2907	GCGCGAUU C UGAGUCGG	8975	CCGACUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AAUCGCGC	27351
8129	2901	UUCUGAGU C GGACAUUC	8976	GAAUGUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ACUCAGAA	27352
8136	2894	UCGGACAU U CCUUGGUC	8977	GACCAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AUGCCGGA	27353
8137	2893	CGGACAUU C CUUGGUCU	8978	AGACCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AAUGUCCG	27354
8140	2890	ACAUUCUU U GGUCUCCG	8979	CGGAGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	AGGAAUGU	27355

Table VIII

8144	2886	UCCUUGGU C UCCGGACC	8980	GGUCCGGA CUGAUGAG	GCCGUUAGGC	CGAA	ACCAAGGA	27356
8146	2884	CUUGGUCU C CGGACCAU	8981	AUGGUCCG CUGAUGAG	GCCGUUAGGC	CGAA	AGACCAAG	27357
8155	2875	CGGACCAU C AACCACAA	8982	UUGUGGUU CUGAUGAG	GCCGUUAGGC	CGAA	AUGGUCCG	27358
8170	2860	AAAGGUGU U GUUGGCGA	8983	UCGCCAAC CUGAUGAG	GCCGUUAGGC	CGAA	ACACCUUU	27359
8173	2857	GGUGUUGU U GCGAGUUU	8984	AACUCGCC CUGAUGAG	GCCGUUAGGC	CGAA	ACAACACC	27360
8181	2849	UGGCGAGU U CUGGUGCA	8985	UGCACCAG CUGAUGAG	GCCGUUAGGC	CGAA	ACUCGCCA	27361
8182	2848	GCGGAGUU C UGGUGCAA	8986	UUGCACCA CUGAUGAG	GCCGUUAGGC	CGAA	AACUCGCC	27362
8193	2837	GUGCAAAU A AAUACUC	8987	GAGUAUUU CUGAUGAG	GCCGUUAGGC	CGAA	AUUUGCAC	27363
8198	2832	AAUAAAAU A CUCUUCU	8988	GGAAAGAG CUGAUGAG	GCCGUUAGGC	CGAA	AUUUUUUU	27364
8201	2829	AAAAUACU C UUUCCCCA	8989	UGGGGAAA CUGAUGAG	GCCGUUAGGC	CGAA	AGUAAUUU	27365
8203	2827	AAUACUCU U UCCCCAGG	8990	CCUGGGGA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGUAUU	27366
8204	2826	AUACUCUU U CCCCAGGC	8991	GCCUGGGG CUGAUGAG	GCCGUUAGGC	CGAA	AAGAGUAU	27367
8205	2825	UACUCUUU C CCCAGGCC	8992	GGCCUGGG CUGAUGAG	GCCGUUAGGC	CGAA	AAAGAGUA	27368
8215	2815	CCAGGCCU U CCAGCCAA	8993	UUGGCUUG CUGAUGAG	GCCGUUAGGC	CGAA	AGGCCUGG	27369
8216	2814	CAGGCCUU C CAGCCAAU	8994	AUUGGCUG CUGAUGAG	GCCGUUAGGC	CGAA	AAGGCCUG	27370
8225	2805	CAGCCAAU U UCCAAUUU	8995	AAAUUGGA CUGAUGAG	GCCGUUAGGC	CGAA	AUUGGCUG	27371
8226	2804	AGCCAAUU U CCAAUUUU	8996	AAAAUUGG CUGAUGAG	GCCGUUAGGC	CGAA	AAUUGGCU	27372
8227	2803	GCCAAUUU C CAAUUUUU	8997	AAAAAUUG CUGAUGAG	GCCGUUAGGC	CGAA	AAAUUGGC	27373
8232	2798	UUUCCAAU U UUUCCGUG	8998	CACGGAAA CUGAUGAG	GCCGUUAGGC	CGAA	AUUGGAAA	27374
8233	2797	UUCCAAUU U UUCGUGG	8999	CCACGGAA CUGAUGAG	GCCGUUAGGC	CGAA	AAUUGGAA	27375
8234	2796	UCCAAUUU U UCCGUGGU	9000	ACCACGGA CUGAUGAG	GCCGUUAGGC	CGAA	AAAUUGGA	27376
8235	2795	CCAAUUUU U CCGUGGUG	9001	CACCACGG CUGAUGAG	GCCGUUAGGC	CGAA	AAAAUUGG	27377
8236	2794	CAAUUUUU C CGUGGUGG	9002	CCACCACG CUGAUGAG	GCCGUUAGGC	CGAA	AAAAAUUG	27378
8256	2774	UGAGGCGU U UAGGUGCU	9003	AGCACCUA CUGAUGAG	GCCGUUAGGC	CGAA	ACGCCUCA	27379
8257	2773	GAGGCGUU U AGGUGCUG	9004	CAGCACCU CUGAUGAG	GCCGUUAGGC	CGAA	AACGCCUC	27380
8258	2772	AGGCGUUU A GGUGCUGA	9005	UCAGCACC CUGAUGAG	GCCGUUAGGC	CGAA	AAAGCCCU	27381
8269	2761	UGCUGACU U GUACAUUC	9006	GAAUGUAC CUGAUGAG	GCCGUUAGGC	CGAA	AGUCAGCA	27382
8272	2758	UGACUUGU A CAUUCUUU	9007	AGGGAAUG CUGAUGAG	GCCGUUAGGC	CGAA	ACAAGUCA	27383
8276	2754	UUGUACAU U CCCUCCUG	9008	CAGGAGGG CUGAUGAG	GCCGUUAGGC	CGAA	AUGUACAA	27384
8277	2753	UGUACAUU C CCUCUGU	9009	ACAGGAGG CUGAUGAG	GCCGUUAGGC	CGAA	AUGUACA	27385
8281	2749	CAUUCUUU C CUGUUUCU	9010	AGAAACAG CUGAUGAG	GCCGUUAGGC	CGAA	AGGGAAUG	27386
8286	2744	CCUCCUGU U UCUCAACC	9011	GGUUGAGA CUGAUGAG	GCCGUUAGGC	CGAA	ACAGGAGG	27387
8287	2743	CUCCUGUU U CUCAACCA	9012	UGGUUGAG CUGAUGAG	GCCGUUAGGC	CGAA	AACAGGAG	27388
8288	2742	UCCUGUUU C UCAACCAC	9013	GUGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA	AAACAGGA	27389
8290	2740	CUGUUUCU C AACCACGA	9014	UCGUGGUU CUGAUGAG	GCCGUUAGGC	CGAA	AGAAACAG	27390
8303	2727	ACGACACU A AGGUCCAC	9015	GUGGACCU CUGAUGAG	GCCGUUAGGC	CGAA	AGUGUCGU	27391
8308	2722	ACUAAGGU C CACACCAU	9016	AUGGUGUG CUGAUGAG	GCCGUUAGGC	CGAA	ACCUUAGU	27392
8317	2713	CACACCAU U CUCCUACA	9017	UGAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA	AUGUGUG	27393
8318	2712	ACACCAUU C UCCUUCAA	9018	UUGAAGGA CUGAUGAG	GCCGUUAGGC	CGAA	AAUGGUGU	27394
8320	2710	ACCAUUCU C CUUCAAAA	9019	UUUUGAAG CUGAUGAG	GCCGUUAGGC	CGAA	AGAAUGGU	27395
8323	2707	AUUCUCCU U CAAAAGAG	9020	CUCUUUUG CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGAAU	27396
8324	2706	UUCUCCUU C AAAAGAGU	9021	ACUCUUUU CUGAUGAG	GCCGUUAGGC	CGAA	AAGGAGAA	27397
8335	2695	AAGAGUGU U CAGCUCGU	9022	ACGAGCUG CUGAUGAG	GCCGUUAGGC	CGAA	ACACUCUU	27398
8336	2694	AGAGUGUU C AGCUCGUC	9023	GACGAGCU CUGAUGAG	GCCGUUAGGC	CGAA	AACACUCU	27399
8341	2689	GUUCAGCU C GUCCUACA	9024	UGAAGGAC CUGAUGAG	GCCGUUAGGC	CGAA	AGCUAGAC	27400
8344	2686	CAGCUCGU C CUUCACUG	9025	CAGUGAAG CUGAUGAG	GCCGUUAGGC	CGAA	ACGAGCUG	27401
8347	2683	CUCGUCCU U CACUGCUU	9026	AAGCAGUG CUGAUGAG	GCCGUUAGGC	CGAA	AGGACGAG	27402
8348	2682	UCGUCCUU C ACUGCUUC	9027	GAAGCAGU CUGAUGAG	GCCGUUAGGC	CGAA	AAGGACGA	27403
8355	2675	UCACUGCU U CCCACAUU	9028	AAUGUGGG CUGAUGAG	GCCGUUAGGC	CGAA	AGCAGUGA	27404
8356	2674	CACUGCUU C CCACAUUU	9029	AAAUUGGG CUGAUGAG	GCCGUUAGGC	CGAA	AAGCAGUG	27405
8363	2667	UCCCAUUA U UGAUGCUC	9030	GAGCAUCA CUGAUGAG	GCCGUUAGGC	CGAA	AUGUGGGA	27406
8364	2666	CCCACAUU U GAUGCUCC	9031	GGAGCAUC CUGAUGAG	GCCGUUAGGC	CGAA	AAUGUGGG	27407
8371	2659	UUGAUGCU C CAGUCUGG	9032	CCAGACUG CUGAUGAG	GCCGUUAGGC	CGAA	AGCAUCA	27408
8376	2654	GCUCCAGU C UGGAAACU	9033	AGUUUCCA CUGAUGAG	GCCGUUAGGC	CGAA	ACUGGAGC	27409
8388	2642	AAACUGAU C GUAGACCG	9034	CGGUCUAC CUGAUGAG	GCCGUUAGGC	CGAA	AUCAGUUU	27410
8391	2639	CUGAUCGU A GACCGCAC	9035	GUGCGGUC CUGAUGAG	GCCGUUAGGC	CGAA	ACGAUCAG	27411
8403	2627	CCACACCU C CUUCCUUA	9036	UAAGGAAG CUGAUGAG	GCCGUUAGGC	CGAA	AGUGUGCG	27412
8406	2624	ACACUCCU U CUAUAUGA	9037	UCAUAAGG CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGUGU	27413
8407	2623	CACUCCUU C CUUAUGAG	9038	CUCAUAAG CUGAUGAG	GCCGUUAGGC	CGAA	AAGGAGUG	27414
8410	2620	UCCUCCUU U AUGAGCUU	9039	AAGCUCAU CUGAUGAG	GCCGUUAGGC	CGAA	AGGAAGGA	27415
8411	2619	CCUCCUUU A UGAGCUUU	9040	AAAGCUCA CUGAUGAG	GCCGUUAGGC	CGAA	AAGGAAGG	27416
8418	2612	UAUGAGCU U UCUGAAUG	9041	CAUUCAGA CUGAUGAG	GCCGUUAGGC	CGAA	AGCUCAUA	27417

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8419	2611	AUGAGCUU U CUGAAUGA	9042	UCAUUCAG CUGAUGAG	GCCGUUAGGC	CGAA	AAGCUCAU	27418
8420	2610	UGAGCUUU C UGAAUGAU	9043	AUCAUUC A CUGAUGAG	GCCGUUAGGC	CGAA	AAAGCUCA	27419
8429	2601	UGAAUGAU C UUGGCUAG	9044	CUAGCCAA CUGAUGAG	GCCGUUAGGC	CGAA	AUCAUUC A	27420
8431	2599	AAUGAUCU U GGCUAGGC	9045	GCCUAGCC CUGAUGAG	GCCGUUAGGC	CGAA	AGAUCAUU	27421
8436	2594	UCUUGGCU A GGCCUUGU	9046	ACAAGGCC CUGAUGAG	GCCGUUAGGC	CGAA	AGCCAAGA	27422
8442	2588	CUAGGCCU U GUGGCGUU	9047	AACGCCAC CUGAUGAG	GCCGUUAGGC	CGAA	AGGCCUAG	27423
8450	2580	UGUGGCGU U UCAGGGUA	9048	UACCCUGA CUGAUGAG	GCCGUUAGGC	CGAA	ACGCCACA	27424
8451	2579	GUGGCGUU U CAGGGUAA	9049	UUACCCUG CUGAUGAG	GCCGUUAGGC	CGAA	AACGCCAC	27425
8452	2578	UGGCGUUU C AGGGUAAU	9050	AUUACCCU CUGAUGAG	GCCGUUAGGC	CGAA	AAACGCCA	27426
8458	2572	UUCAGGGU A AUACUUGU	9051	ACAAGUAU CUGAUGAG	GCCGUUAGGC	CGAA	ACCCUGAA	27427
8461	2569	AGGGUAAU A CUUGUACC	9052	GGUACAA G CUGAUGAG	GCCGUUAGGC	CGAA	AUUACCCU	27428
8464	2566	GUAAUACU U GUACCGGU	9053	ACCGGUAC CUGAUGAG	GCCGUUAGGC	CGAA	AGUAUUA C	27429
8467	2563	AUACUUGU A CCGGUCCA	9054	UGGACCGG CUGAUGAG	GCCGUUAGGC	CGAA	ACAAGUAU	27430
8473	2557	GUACCGGU C CAUCCAAG	9055	CUUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA	ACCGGUAC	27431
8477	2553	CGGUCCAU C CAAGCCUC	9056	GAGGCUUG CUGAUGAG	GCCGUUAGGC	CGAA	AUGGACCG	27432
8485	2545	CCAAGCCU C CACAUCAU	9057	AUGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA	AGGCUUGG	27433
8491	2539	CUCCACAU C AUUGUGUA	9058	UACACAAU CUGAUGAG	GCCGUUAGGC	CGAA	AUGUGGAG	27434
8494	2536	CACAUCAU U GUGUAUGA	9059	UCAUACAC CUGAUGAG	GCCGUUAGGC	CGAA	AUGAUGUG	27435
8499	2531	CAUUGUGU A UGAACACU	9060	AGUGUUCA CUGAUGAG	GCCGUUAGGC	CGAA	ACACA AUG	27436
8508	2522	UGAACACU C CACUCCA	9061	UGGAAGUG CUGAUGAG	GCCGUUAGGC	CGAA	AGUGUUA C	27437
8513	2517	ACUCCACU U CCACAUCU	9062	AGAUGUGG CUGAUGAG	GCCGUUAGGC	CGAA	AGUGGAGU	27438
8514	2516	CUCCACUU C CACAUCUC	9063	GAGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA	AUGUGGAG	27439
8520	2510	UCCACAU C UCAGCUCU	9064	AGAGCUGA CUGAUGAG	GCCGUUAGGC	CGAA	AUGUGGAA	27440
8522	2508	CCACAUCU C AGCUCUUG	9065	CAAGAGCU CUGAUGAG	GCCGUUAGGC	CGAA	AGAUGUGG	27441
8527	2503	UCUCAGCU C UUGCCGGC	9066	GCCGGCAA CUGAUGAG	GCCGUUAGGC	CGAA	AGCUGAGA	27442
8529	2501	UCAGCUCU U GCCGGCUG	9067	CAGCCGGC CUGAUGAG	GCCGUUAGGC	CGAA	AGAGCUGA	27443
8542	2488	GCUGAUGU C UAUGGCAC	9068	GUGCCAU A CUGAUGAG	GCCGUUAGGC	CGAA	ACAUCAGC	27444
8544	2486	UGAUGUCU A UGGCACAC	9069	GUGUGCCA CUGAUGAG	GCCGUUAGGC	CGAA	AGACAUCA	27445
8560	2470	CCCAGUGU C AGCGUGCA	9070	UGCACGCU CUGAUGAG	GCCGUUAGGC	CGAA	ACACUUGG	27446
8572	2458	GUGCAGU U CACGGAGA	9071	UCUCCGUG CUGAUGAG	GCCGUUAGGC	CGAA	ACGUGCAC	27447
8573	2457	UGCACGUU C ACGGAGAG	9072	CUUCUGCU CUGAUGAG	GCCGUUAGGC	CGAA	AACGUGCA	27448
8595	2435	GCAGAACU C CUCCAACU	9073	AGUUGGAG CUGAUGAG	GCCGUUAGGC	CGAA	AGUUCUGC	27449
8598	2432	GAACUCCU C CAACUGCG	9074	CGCAGUUG CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGUUC	27450
8622	2408	UGAGAGCU A UGGACCUA	9075	UAGGUCCA CUGAUGAG	GCCGUUAGGC	CGAA	AGCUCUCA	27451
8630	2400	AUGGACCU A UCACGAGC	9076	GCUCUGUA CUGAUGAG	GCCGUUAGGC	CGAA	AGGUCCAU	27452
8632	2398	GGACCUAU C ACGAGCAU	9077	AUGCUCGU CUGAUGAG	GCCGUUAGGC	CGAA	AUAGGUCC	27453
8641	2389	ACGAGCAU U GAUGCCCA	9078	UGGGCAUC CUGAUGAG	GCCGUUAGGC	CGAA	AUGUCUGU	27454
8651	2379	AUGCCCAU C CACAACAG	9079	CUGUUGUG CUGAUGAG	GCCGUUAGGC	CGAA	AUGGGCAU	27455
8676	2354	CCAGCAAU C CUUGCGUU	9080	AACGCAAG CUGAUGAG	GCCGUUAGGC	CGAA	AUUGCUGG	27456
8679	2351	GCAAUCCU U GCGUUAUC	9081	GAUAACGC CUGAUGAG	GCCGUUAGGC	CGAA	AGGAUUGC	27457
8684	2346	CCUUGCGU U AUCCAGGA	9082	UCCUGGAU CUGAUGAG	GCCGUUAGGC	CGAA	ACGCAAGG	27458
8685	2345	CUUGCGUU A UCCAGGAC	9083	GUCCUGGA CUGAUGAG	GCCGUUAGGC	CGAA	AACGCAAG	27459
8687	2343	UGCGUUAU C CAGGACAU	9084	AUGUCCUG CUGAUGAG	GCCGUUAGGC	CGAA	AUAACGCA	27460
8700	2330	ACAUGCCU C CGAACAGU	9085	ACUGUUCG CUGAUGAG	GCCGUUAGGC	CGAA	AGGCAUGU	27461
8721	2309	GGAAUGCU C CUCCGAAC	9086	GUUCGGAG CUGAUGAG	GCCGUUAGGC	CGAA	AGCAUUCU	27462
8724	2306	AUGCUCU C CGAACACU	9087	AGUGUUCG CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGCAU	27463
8733	2297	CGAACACU U GAUGGACA	9088	UGUCCAUC CUGAUGAG	GCCGUUAGGC	CGAA	AGUGUUCG	27464
8746	2284	GACAGCCU U CCCAACUG	9089	CAGUUGGG CUGAUGAG	GCCGUUAGGC	CGAA	AGGCUGUC	27465
8747	2283	ACAGCCUU C CCAACUGA	9090	UCAGUUGG CUGAUGAG	GCCGUUAGGC	CGAA	AAGGCUGU	27466
8769	2261	ACACCCCU C CAACUGAU	9091	AUCAGUUG CUGAUGAG	GCCGUUAGGC	CGAA	AGGGGUGU	27467
8778	2252	CAACUGAU C CAAAGUCC	9092	GGACUUUG CUGAUGAG	GCCGUUAGGC	CGAA	AUCAGUUG	27468
8785	2245	UCCAAAGU C CCAAGCUG	9093	CAGCUUGG CUGAUGAG	GCCGUUAGGC	CGAA	ACUUUGGA	27469
8797	2233	AGCUGUGU C UCCUAGAG	9094	CUCUAGGA CUGAUGAG	GCCGUUAGGC	CGAA	ACACAGCU	27470
8799	2231	CUGUGUCU C CUAGAGCG	9095	CGCUCUAG CUGAUGAG	GCCGUUAGGC	CGAA	AGACACAG	27471
8802	2228	UGUCUCCU A GAGCGGCU	9096	AGCCGCUC CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGACA	27472
8811	2219	GAGCGGCU A GUCUCUGC	9097	GCAGAGAC CUGAUGAG	GCCGUUAGGC	CGAA	AGCCGCUC	27473
8814	2216	CGGCUAGU C UCUGCGCU	9098	AGCGCAGA CUGAUGAG	GCCGUUAGGC	CGAA	ACUAGCCG	27474
8816	2214	GCUAGUCU C UGCGCUCC	9099	GGAGCGCA CUGAUGAG	GCCGUUAGGC	CGAA	AGACUAGC	27475
8823	2207	UCUGCGCU C CUUUGAGG	9100	CCUCAAG CUGAUGAG	GCCGUUAGGC	CGAA	AGCGCAGA	27476
8826	2204	GCGCUCCU U UGAGGGUG	9101	CACCCUCA CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGCGC	27477
8827	2203	CGCUCUCCU U GAGGGUGG	9102	CCACCCUC CUGAUGAG	GCCGUUAGGC	CGAA	AAGGAGCG	27478
8837	2193	AGGGUGGU U GUAAAGGC	9103	GCCUUUAC CUGAUGAG	GCCGUUAGGC	CGAA	ACCACCCU	27479

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8840	2190	GUGGUUGU A AAGGCUUU	9104	AAAGCCUU CUGAUGAG	GCCGUUAGGC	CGAA ACAACCAC	27480
8847	2183	UAAAGGCU U UGCCAAUG	9105	CAUUGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGCCUUUA	27481
8848	2182	AAAGGCUU U GCCAAUGC	9106	GCAUUGGC CUGAUGAG	GCCGUUAGGC	CGAA AAGCCUUU	27482
8861	2169	AUGCUGCU U CCAGACUU	9107	AAGUCUGG CUGAUGAG	GCCGUUAGGC	CGAA AGCAGCAU	27483
8862	2168	UGCUGCUU C CAGACUUG	9108	CAAGUCUG CUGAUGAG	GCCGUUAGGC	CGAA AAGCAGCA	27484
8869	2161	UCCAGACU U GUGCCAAU	9109	AUUGGCAC CUGAUGAG	GCCGUUAGGC	CGAA AGUCUGGA	27485
8884	2146	AUGGUGAU U GAUCUGUU	9110	AACAGAUC CUGAUGAG	GCCGUUAGGC	CGAA AUCACCAU	27486
8888	2142	UGAUUGAU C UGUUGUUC	9111	GAACAACA CUGAUGAG	GCCGUUAGGC	CGAA AUCAAUCA	27487
8892	2138	UGAUCUGU U GUUCUCCU	9112	AGGAGAAC CUGAUGAG	GCCGUUAGGC	CGAA ACAGAUCA	27488
8895	2135	UCUGUUGU U CUCCUCUG	9113	CAGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACAACAGA	27489
8896	2134	CUGUUGUU C UCCUCUGC	9114	GCAGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AACAACAG	27490
8898	2132	GUUGUUCU C CUCUGCCC	9115	GGGCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAACAAC	27491
8901	2129	GUUCUCCU C UGCCCACC	9116	GGUGGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAAC	27492
8913	2117	CCACCACU A UGUUAGAG	9117	CUCAUACA CUGAUGAG	GCCGUUAGGC	CGAA AGUGGUGG	27493
8917	2113	CACUAUGU A UGAGUCUC	9118	GAGACUCA CUGAUGAG	GCCGUUAGGC	CGAA ACAUAGUG	27494
8923	2107	GUUAGAGU C UCCAAAGG	9119	CCUUUGGA CUGAUGAG	GCCGUUAGGC	CGAA ACUCAUAC	27495
8925	2105	AUGAGUCU C CAAAGGGU	9120	ACCCUUUG CUGAUGAG	GCCGUUAGGC	CGAA AGACUCAU	27496
8937	2093	AGGGUGGU U CCAAUUCA	9121	UGAAUUGG CUGAUGAG	GCCGUUAGGC	CGAA ACCACCCU	27497
8938	2092	GGGUGGUU C CAAUUCAA	9122	UUGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA AACCACCC	27498
8943	2087	GUUCCAAU U CAUUCAGG	9123	CCUGAUUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGGAAC	27499
8944	2086	UUCCAAUU C AAUCAGGA	9124	UCCUGAAU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGAA	27500
8948	2082	AAUCCAAU C AGGACCUU	9125	AAGGUCCU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGAAU	27501
8956	2074	CAGGACCU U AGCGUUGG	9126	CCAACGCU CUGAUGAG	GCCGUUAGGC	CGAA AGGUCCUG	27502
8957	2073	AGGACCUU A GCGUUGGC	9127	GCCAACGC CUGAUGAG	GCCGUUAGGC	CGAA AAGGUCCU	27503
8962	2068	CUUAGCGU U GGCCGUGG	9128	CCACGGCC CUGAUGAG	GCCGUUAGGC	CGAA ACGCUAAG	27504
8989	2041	AAAAGGGU U GACAGUGA	9129	UCACUGUC CUGAUGAG	GCCGUUAGGC	CGAA ACCCUUUU	27505
9003	2027	UGACCAAU C UGCCACU	9130	AGUGGGCA CUGAUGAG	GCCGUUAGGC	CGAA AUUGGUCA	27506
9017	2013	ACUGGCGU U AGGUCGUU	9131	AACGACCU CUGAUGAG	GCCGUUAGGC	CGAA ACGCCAGU	27507
9018	2012	CUGGCGUU A GGUCGUUC	9132	GAACGACC CUGAUGAG	GCCGUUAGGC	CGAA AACGCCAG	27508
9022	2008	CGUUAGGU C GUUCAUUG	9133	CAUUGAAC CUGAUGAG	GCCGUUAGGC	CGAA ACCUAACG	27509
9025	2005	UAGGUCCU U CAAUGAAG	9134	CUUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACGACCUA	27510
9026	2004	AGGUCGUU C AAUGAAGC	9135	GCUUCAUU CUGAUGAG	GCCGUUAGGC	CGAA AACGACCU	27511
9047	1983	GACGAGAU A GGAACUUU	9136	AAAGUUCU CUGAUGAG	GCCGUUAGGC	CGAA AUCUCGUC	27512
9054	1976	UAGGAACU U UGCAAGGU	9137	ACCUUGCA CUGAUGAG	GCCGUUAGGC	CGAA AGUUCCUA	27513
9055	1975	AGGAACUU U GCAAGGUC	9138	GACCUUGC CUGAUGAG	GCCGUUAGGC	CGAA AAGUUCU	27514
9063	1967	UGCAAGGU C CAUCCGUG	9139	CACGGAUG CUGAUGAG	GCCGUUAGGC	CGAA ACCUUGCA	27515
9067	1963	AGGUCCAU C CGUGCCAG	9140	CUGGACAG CUGAUGAG	GCCGUUAGGC	CGAA AAGGACCU	27516
9079	1951	GCCAGUGU A CUGCAAUU	9141	AAUUGCAG CUGAUGAG	GCCGUUAGGC	CGAA ACACUGGC	27517
9087	1943	ACUGCAAU U CCAACACC	9142	GGUGUUGG CUGAUGAG	GCCGUUAGGC	CGAA AUUGCAGU	27518
9088	1942	CUGCAAUU C CAACACCA	9143	UGGUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AAUUGCAG	27519
9115	1915	ACCUGUGU C UGCGGGAG	9144	CUCCCGCA CUGAUGAG	GCCGUUAGGC	CGAA ACACAGGU	27520
9125	1905	GCGGGAGU C CCAAGAAA	9145	UUUCUUGG CUGAUGAG	GCCGUUAGGC	CGAA ACUCCCGC	27521
9136	1894	AAGAACTU U GAAAGCCU	9146	AGGCUUUC CUGAUGAG	GCCGUUAGGC	CGAA AGUUUCUU	27522
9145	1885	GAAAGCCU U UGAACAGA	9147	UCUGUUCA CUGAUGAG	GCCGUUAGGC	CGAA AGGCUUUC	27523
9146	1884	AAAGCCUU U GAACAGAC	9148	GUCUGUUC CUGAUGAG	GCCGUUAGGC	CGAA AAGGCUUU	27524
9160	1870	GACGCCAU A GGUUGUUC	9149	GAACAACC CUGAUGAG	GCCGUUAGGC	CGAA AUGGCGUC	27525
9164	1866	CCAUAGGU U GUUCCCUU	9150	AAGGGAAC CUGAUGAG	GCCGUUAGGC	CGAA ACCUAUGG	27526
9167	1863	UAGGUUGU U CCCUCAA	9151	UUGAAGGG CUGAUGAG	GCCGUUAGGC	CGAA ACAACCUA	27527
9168	1862	AGGUUGUU C CCUUC AAC	9152	GUUGAAGG CUGAUGAG	GCCGUUAGGC	CGAA AACAACCU	27528
9172	1858	UGUUCUUU U CAACUGCA	9153	UGCAGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGGAACA	27529
9173	1857	GUUCCUUU C AACUGCAA	9154	UUGCAGUU CUGAUGAG	GCCGUUAGGC	CGAA AAGGGAAC	27530
9183	1847	ACUGCAAU U UUUCCAUC	9155	GAUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AUUGCAGU	27531
9184	1846	CUGCAAUU U UUCUAUCU	9156	AGAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAUUGCAG	27532
9185	1845	UGCAAUUU U UCCAUCUU	9157	AAGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA AAAUUGCA	27533
9186	1844	GCAAUUUU U CCAUCUUC	9158	GAAGAUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAAUUGC	27534
9187	1843	CAAUUUUU C CAUCUUCA	9159	UGAAGAUG CUGAUGAG	GCCGUUAGGC	CGAA AAAAUUG	27535
9191	1839	UUUUCCAU C UUCACUCU	9160	AGAGUGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAAA	27536
9193	1837	UUCCAUCU U CACUCUAC	9161	GUAGAGUG CUGAUGAG	GCCGUUAGGC	CGAA AGAUGGAA	27537
9194	1836	UCCAUCUU C ACUCUACA	9162	UGUAGAGU CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGGA	27538
9198	1832	UCUUCACU C UACACUUC	9163	GAAGUGUA CUGAUGAG	GCCGUUAGGC	CGAA AGUGAAGA	27539
9200	1830	UUCACUCU A CACUUCAA	9164	UUGAAGUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGAA	27540
9205	1825	UCUACACU U CAAUAGAC	9165	GUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUAGA	27541

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9206	1824	CUACACUU C AAAUGACC	9166	GGUCAUUU CUGAUGAG	GCCGUUAGGC	CGAA AAGUGUAG	27542
9221	1809	CCCAGCGU C AACUUGAC	9167	GUCAAGUU CUGAUGAG	GCCGUUAGGC	CGAA ACUCGGG	27543
9226	1804	CGUCAACU U GACAGUGU	9168	ACACUGUC CUGAUGAG	GCCGUUAGGC	CGAA AGUUGACG	27544
9235	1795	GACAGUGU U GCUUGAAA	9169	UUUCAAGC CUGAUGAG	GCCGUUAGGC	CGAA ACACUGUC	27545
9239	1791	GUGUUGCU U GAAAAUUC	9170	GAAUUUUC CUGAUGAG	GCCGUUAGGC	CGAA AGCAACAC	27546
9246	1784	UGAAAAU C CACAGGA	9171	UCCUGUGG CUGAUGAG	GCCGUUAGGC	CGAA AUUUUCA	27547
9247	1783	UGAAAAU C CACAGGA	9172	UUCUGUG CUGAUGAG	GCCGUUAGGC	CGAA AAUUUUA	27548
9261	1769	GAAUGGCU C CAGCCAAA	9173	UUUGGUG CUGAUGAG	GCCGUUAGGC	CGAA AGCCAUUC	27549
9273	1757	CCAAAGCU U GAUGCAGA	9174	UCUGAUC CUGAUGAG	GCCGUUAGGC	CGAA AGCUUUGG	27550
9285	1745	GCAGAGCU C CCUCUUGU	9175	ACAAGAGG CUGAUGAG	GCCGUUAGGC	CGAA AGCUCUGC	27551
9289	1741	AGUCCCCU C UUGUGAGC	9176	GCUCACAA CUGAUGAG	GCCGUUAGGC	CGAA AGGGAGCU	27552
9291	1739	CUCCCCU U GUGAGCCC	9177	GGGUCAC CUGAUGAG	GCCGUUAGGC	CGAA AGAGGGAG	27553
9306	1724	CCAAUGCU A UCACAGAC	9178	GUCUGUA CUGAUGAG	GCCGUUAGGC	CGAA AGCAUUGG	27554
9308	1722	AAUGCUAU C ACAGACUG	9179	CAGUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AUAGCAU	27555
9319	1711	AGACUGCU U CGUGGCGU	9180	ACGCCACG CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUCU	27556
9320	1710	GACUGCUU C GUGGCGUG	9181	CACGCCAC CUGAUGAG	GCCGUUAGGC	CGAA AAGCAGUC	27557
9333	1697	CGUGUGGU U CCUCAAAC	9182	GUUUGAGG CUGAUGAG	GCCGUUAGGC	CGAA ACCACACG	27558
9334	1696	GUGUGGUU C CUCAAACU	9183	AGUUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AACCACAC	27559
9337	1693	UGGUUCCU C AAACUCCA	9184	UGGAGUUU CUGAUGAG	GCCGUUAGGC	CGAA AGGAACCA	27560
9343	1687	CUCAAAU C CAUUAACG	9185	CGUUAUUG CUGAUGAG	GCCGUUAGGC	CGAA AGUUUGAG	27561
9347	1683	AACUCCAU U AACGUCUC	9186	GAGACGUU CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGUU	27562
9348	1682	ACUCCAUU A ACGUCUCU	9187	AGAGACGU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGAGU	27563
9353	1677	AUUAACGU C UCUCUGUU	9188	AACAGAGA CUGAUGAG	GCCGUUAGGC	CGAA ACGUUAU	27564
9355	1675	UAACGUCU C UCUGUUC	9189	GGAACAGA CUGAUGAG	GCCGUUAGGC	CGAA AGACGUUA	27565
9357	1673	ACGUCUCU C UGUUCCUC	9190	GAGGAACA CUGAUGAG	GCCGUUAGGC	CGAA AGAGACGU	27566
9361	1669	CUCUCUGU U CCUCCACA	9191	UGUGGAGG CUGAUGAG	GCCGUUAGGC	CGAA ACAGAGAG	27567
9362	1668	UCUCUGUU C CUCCACAC	9192	GUGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA AACAGAGA	27568
9365	1665	CUGUUCU C CACACAGU	9193	ACUGUGUG CUGAUGAG	GCCGUUAGGC	CGAA AGGAACAG	27569
9374	1656	CACACAGU A CUUCCAGC	9194	CGUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGUGUG	27570
9377	1653	ACAGUACU U CCAGCACU	9195	AGUGCUGG CUGAUGAG	GCCGUUAGGC	CGAA AGUACUGU	27571
9378	1652	CAGUACUU C CAGCACUG	9196	CAGUGCUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUACUG	27572
9389	1641	GCACUGCU C CAAGGGAG	9197	CUCCCUUG CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUGC	27573
9400	1630	AGGGAGGU U GAGGUCCA	9198	UGGACCUC CUGAUGAG	GCCGUUAGGC	CGAA ACCUCCCU	27574
9406	1624	GUUGAGGU C CAUGAAC	9199	GGUUAUG CUGAUGAG	GCCGUUAGGC	CGAA ACCUCAAC	27575
9418	1612	GAACCACU C ACGAUGGA	9200	UCCAUCGU CUGAUGAG	GCCGUUAGGC	CGAA AGUGGUUC	27576
9437	1593	AAGAAGCU C UUUGUUC	9201	GGAACAA CUGAUGAG	GCCGUUAGGC	CGAA ACGUUCU	27577
9439	1591	GAAGUUCU U UGUUCCAA	9202	UUGGAACA CUGAUGAG	GCCGUUAGGC	CGAA AUGCGUUC	27578
9440	1590	AACGUCUU U GUUCCAA	9203	GUUGGAAC CUGAUGAG	GCCGUUAGGC	CGAA AAGACGUU	27579
9443	1587	GUCUUUGU U CCAACAGU	9204	ACUGUUGG CUGAUGAG	GCCGUUAGGC	CGAA ACAAAGAC	27580
9444	1586	UCUUUGUU C CAACAGUC	9205	GACUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AACAAAGA	27581
9452	1578	CCAACAGU C AUCACGUA	9206	UACGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACUGUUGG	27582
9455	1575	ACAGUCAU C ACGUAGUA	9207	UACUACGU CUGAUGAG	GCCGUUAGGC	CGAA AUGACUGU	27583
9460	1570	CAUCACGU A GUAUGCAU	9208	AUGCAUAC CUGAUGAG	GCCGUUAGGC	CGAA ACGUGAUG	27584
9463	1567	CACGUAGU A UGCAUUGG	9209	CCAUGUCA CUGAUGAG	GCCGUUAGGC	CGAA ACUACGUG	27585
9469	1561	GUAUGCAU U GGUGUCAA	9210	UUGACACC CUGAUGAG	GCCGUUAGGC	CGAA AUGCAUAC	27586
9475	1555	AUUGGUGU C AAUCCUG	9211	CAGGGAUU CUGAUGAG	GCCGUUAGGC	CGAA ACACCAAU	27587
9479	1551	GUGUCAAU C CCUGACCG	9212	CGGUCAGG CUGAUGAG	GCCGUUAGGC	CGAA AUUGACAC	27588
9492	1538	ACCGUGGU U CACAGUCC	9213	GGACUGUG CUGAUGAG	GCCGUUAGGC	CGAA ACCACGGU	27589
9493	1537	CCGUGGUU C ACAGUCCA	9214	UGGACUGU CUGAUGAG	GCCGUUAGGC	CGAA AACCCACG	27590
9499	1531	UUCACAGU C CACUGUCA	9215	UGACAGUG CUGAUGAG	GCCGUUAGGC	CGAA ACUGUGAA	27591
9506	1524	UCCACUGU C ACCUCUCC	9216	GGAGAGGU CUGAUGAG	GCCGUUAGGC	CGAA ACAGUGGA	27592
9511	1519	UGUACCUU C UCCAUAU	9217	AAUAUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGGACA	27593
9513	1517	UCACCUCU C CAUAUCU	9218	AGAAUAUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGGUGA	27594
9517	1513	CUCUCCAU A UUCUCCAA	9219	UUGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGAG	27595
9519	1511	CUCCAUAU U CUCCAAGC	9220	GCUUGGAG CUGAUGAG	GCCGUUAGGC	CGAA AUAUGGAG	27596
9520	1510	UCCAUAU C UCCAAGCU	9221	AGCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA AAUAUGGA	27597
9522	1508	CAUAUUCU C CAAGCUUU	9222	AAAGCUUG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUAUG	27598
9529	1501	UCCAAGCU U UAGUGUGU	9223	ACACACUA CUGAUGAG	GCCGUUAGGC	CGAA AGCUUGGA	27599
9530	1500	CCAAGCUU U AGUGUGUA	9224	UACACACU CUGAUGAG	GCCGUUAGGC	CGAA AAGCUUGG	27600
9531	1499	CAAGCUUU A GUGUGUAU	9225	AUACACAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGCUUG	27601
9538	1492	UAGUGUGU A UGAAGGCG	9226	CGCCUUA CUGAUGAG	GCCGUUAGGC	CGAA ACACACUA	27602
9567	1463	UGCUGAAU C UCCUGGCC	9227	GGCAGGGA CUGAUGAG	GCCGUUAGGC	CGAA AUUCAGCA	27603

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9569	1461	CUGAAUCU C CCUGCCUG	9228	CAGGCAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAUUCAG	27604
9585	1445	GAGUGGCU C CAACCUGU	9229	ACAGGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGCCACUC	27605
9601	1429	UGUGGAGU A GUUCCGU	9230	ACGGAAAC CUGAUGAG	GCCGUUAGGC	CGAA ACUCCACA	27606
9604	1426	GGAGUAGU U UCCGUGCG	9231	CGCACGGA CUGAUGAG	GCCGUUAGGC	CGAA ACUACUCC	27607
9605	1425	GAGUAGUU U CCGUGCGA	9232	UCGCACGG CUGAUGAG	GCCGUUAGGC	CGAA AACUACUC	27608
9606	1424	AGUAGUUU C CGUGCGAC	9233	GUCGCACG CUGAUGAG	GCCGUUAGGC	CGAA AAACUACU	27609
9616	1414	GUGCGACU C CACAGUAG	9234	CUACUGUG CUGAUGAG	GCCGUUAGGC	CGAA AGUCGCAC	27610
9623	1407	UCCACAGU A GUUGGUCC	9235	GGACCAAC CUGAUGAG	GCCGUUAGGC	CGAA ACUGUGGA	27611
9626	1404	ACAGUAGU U GGUCCAUG	9236	CAUGGACC CUGAUGAG	GCCGUUAGGC	CGAA ACUACUGU	27612
9630	1400	UAGUUGGU C CAUGGACA	9237	UGUCCAUG CUGAUGAG	GCCGUUAGGC	CGAA ACCAACUA	27613
9651	1379	UGGCCACU U CGUACUUG	9238	CAAGUACG CUGAUGAG	GCCGUUAGGC	CGAA AGUGGCCA	27614
9652	1378	GGCCACUU C GUACUUGA	9239	UCAAGUAC CUGAUGAG	GCCGUUAGGC	CGAA AAGUGGCC	27615
9655	1375	CACUUCGU A CUUGAUAU	9240	AUAUCAAG CUGAUGAG	GCCGUUAGGC	CGAA ACGAAGUG	27616
9658	1372	UUCGUACU U GAUAUUCU	9241	AGAAUAUC CUGAUGAG	GCCGUUAGGC	CGAA AGUACGAA	27617
9662	1368	UACUUGAU A UUCUCUUU	9242	AAAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AUCAAGUA	27618
9664	1366	CUUGAUAU U CUCUUUCA	9243	UGAAAGAG CUGAUGAG	GCCGUUAGGC	CGAA AUAUCAAG	27619
9665	1365	UUGAUAUU C UCUUUCAA	9244	UUGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AAUAUCAA	27620
9667	1363	GAUAUUCU C UUUCAAGA	9245	UCUUGAAA CUGAUGAG	GCCGUUAGGC	CGAA AGAAUAUC	27621
9669	1361	UAUUCUCU U UCAAGAUG	9246	CAUCUUGA CUGAUGAG	GCCGUUAGGC	CGAA AGAGAAUA	27622
9670	1360	AUUCUCUU U CAAGAUGG	9247	CCAUCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAGAAU	27623
9671	1359	UUCUCUUU C AAGAUGGU	9248	ACCAUCUU CUGAUGAG	GCCGUUAGGC	CGAA AAAGAGAA	27624
9680	1350	AAGAUGGU U CUUCCUAA	9249	AUAGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AACCAUCU	27625
9681	1349	AGAUGGUU C UUCCUAUU	9250	AAUAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AACCAUCU	27626
9683	1347	AUGGUUCU U CCUAUUGC	9251	GCAAUAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAACCAU	27627
9684	1346	UGGUUCUU C CUAUUGCC	9252	GGCAAUAG CUGAUGAG	GCCGUUAGGC	CGAA AGAACCA	27628
9687	1343	UUCUUCUU A UUGCCUUG	9253	CAAGGCAA CUGAUGAG	GCCGUUAGGC	CGAA AGGAAGAA	27629
9689	1341	CUUCCUAA U GCCUUGGU	9254	ACCAAGGC CUGAUGAG	GCCGUUAGGC	CGAA AUAGGAAG	27630
9694	1336	UAUUGCCU U GGUAGAGC	9255	GCUCUACC CUGAUGAG	GCCGUUAGGC	CGAA AGGCAUAU	27631
9698	1332	GCCUUGGU A GAGCAGGC	9256	GCCUGCUC CUGAUGAG	GCCGUUAGGC	CGAA ACCAAGGC	27632
9711	1319	AGGCAAAU U UGGCGCAU	9257	AUGCGCCA CUGAUGAG	GCCGUUAGGC	CGAA AUUUGCCU	27633
9712	1318	GGCAAAU U GGCAGUAG	9258	CAUGCGCC CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGCC	27634
9724	1306	GCAUGUGU C AAUGCUUC	9259	GAAGCAUU CUGAUGAG	GCCGUUAGGC	CGAA ACACAUGC	27635
9731	1299	UCAAUGCU U CCUUGGCC	9260	GGCAAAGG CUGAUGAG	GCCGUUAGGC	CGAA AGCAUUGA	27636
9732	1298	CAAUGCUU C CUUUGCCA	9261	UGGCAAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGCAUUG	27637
9735	1295	UGCUUCCU U UGCCAAAU	9262	AUUUGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGGAAGCA	27638
9736	1294	GCUUCUUU U GCCAAUA	9263	UAUUUGGC CUGAUGAG	GCCGUUAGGC	CGAA AAGGAAGC	27639
9744	1286	UGCCAAAU A AUCCGACAG	9264	UUGCGGAU CUGAUGAG	GCCGUUAGGC	CGAA AUUUGGCA	27640
9747	1283	CAAAUAAU C CGCAGCCG	9265	CGGCUGCG CUGAUGAG	GCCGUUAGGC	CGAA AUUAUUUG	27641
9757	1273	GCAGCCGU U GCCCAGC	9266	GCUGGGGC CUGAUGAG	GCCGUUAGGC	CGAA ACGGCUGC	27642
9772	1258	GCCCUGU C CACCACUC	9267	GAGUGGUG CUGAUGAG	GCCGUUAGGC	CGAA ACAGGGGC	27643
9780	1250	CCACCACU C CUUGUCUG	9268	CAGACAAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGGUGG	27644
9783	1247	CCACUCCU U GUCUGCAC	9269	GUGCAGAC CUGAUGAG	GCCGUUAGGC	CGAA AGGAGUGG	27645
9786	1244	CUCCUUGU C UGCACACA	9270	UGUGUGCA CUGAUGAG	GCCGUUAGGC	CGAA ACAAGGAG	27646
9805	1225	AGCUGGGU C AGCACGUU	9271	AACUGUCU CUGAUGAG	GCCGUUAGGC	CGAA ACCCAGCU	27647
9813	1217	CAGCACGU U UGUCAUUG	9272	CAAUAGCA CUGAUGAG	GCCGUUAGGC	CGAA ACGUGCUG	27648
9814	1216	AGCACGUU U GUCAUUGU	9273	ACAAUGAC CUGAUGAG	GCCGUUAGGC	CGAA AACGUGCU	27649
9817	1213	ACGUUUGU C AUUGUGAG	9274	CUCACAAU CUGAUGAG	GCCGUUAGGC	CGAA ACAAACGU	27650
9820	1210	UUUGUCAU U GUGAGCUU	9275	AAGCUCAC CUGAUGAG	GCCGUUAGGC	CGAA AUGACAAA	27651
9828	1202	UGUGAGCU U CUCCCAUG	9276	CAUGGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGCUCACA	27652
9829	1201	GUGAGCUU C UCCCAUGG	9277	CCAUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AAGCUCAC	27653
9831	1199	GAGCUUCU C CCAUGGUC	9278	GACCAUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAAGCUC	27654
9839	1191	CCCAUGGU C GGGCACGC	9279	GCGUGCCC CUGAUGAG	GCCGUUAGGC	CGAA ACCAUGGG	27655
9852	1178	ACGCAGCU U UGGUGGAG	9280	CUCCACCA CUGAUGAG	GCCGUUAGGC	CGAA ACGUGCGU	27656
9853	1177	CGCAGCUU U GGUGGAGA	9281	UCUCCACC CUGAUGAG	GCCGUUAGGC	CGAA AAGCUGCG	27657
9865	1165	GGAGAGAU C CGUACGG	9282	CCGUCAGC CUGAUGAG	GCCGUUAGGC	CGAA AUCUCUCC	27658
9875	1155	CUGACGGU A GCCAAUA	9283	UAUUUGGC CUGAUGAG	GCCGUUAGGC	CGAA ACCGUCAG	27659
9883	1147	AGCCAAAU A GCAAUAAC	9284	GUUAUUGC CUGAUGAG	GCCGUUAGGC	CGAA AUUUGGCU	27660
9889	1141	AUAGCAAU A ACUGCGGA	9285	UCCGCAGU CUGAUGAG	GCCGUUAGGC	CGAA AUUGCUAU	27661
9901	1129	GCGGACCU C UGCCAGGU	9286	ACCUGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGGUCCGC	27662
9910	1120	UGCCAGGU U GACCGCCU	9287	AGGCGGUC CUGAUGAG	GCCGUUAGGC	CGAA ACCUGGCA	27663
9919	1111	GACCGCCU C CAUAUUCA	9288	UGAAUAUG CUGAUGAG	GCCGUUAGGC	CGAA ACGCGGUC	27664
9923	1107	GCCUCCAU A UUCAUCAU	9289	AUGAUGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGGC	27665

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9925	1105	CUCCAUAU U CAUCAUCU	9290	AGAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA AUAUGGAG	27666
9926	1104	UCCAUAU C AUCAUCU	9291	AAGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA AUAUGGA	27667
9929	1101	AUAUUCAU C AUCUUCAC	9292	GUGAAGAU CUGAUGAG	GCCGUUAGGC	CGAA AUGAAUUAU	27668
9932	1098	UUCAUCAU C UUCACAUC	9293	GAUGUGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGAA	27669
9934	1096	CAUCAUCU U CACAUCGA	9294	UCGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA AGAUGAUG	27670
9935	1095	AUCAUCU C ACAUCGAU	9295	AUCGAUGU CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGAU	27671
9940	1090	CUUCAU C GAUGGUAG	9296	CUACCAUC CUGAUGAG	GCCGUUAGGC	CGAA AUGUGAAG	27672
9947	1083	UCGAUGGU A GGCUGUC	9297	GACAAGGC CUGAUGAG	GCCGUUAGGC	CGAA ACCAUCGA	27673
9952	1078	GGUAGGCU U GUCCUAG	9298	CUAAGGAC CUGAUGAG	GCCGUUAGGC	CGAA AGCCUACC	27674
9955	1075	AGGCUUGU C CUUAGACA	9299	UGUCUAG CUGAUGAG	GCCGUUAGGC	CGAA ACAAGCCU	27675
9958	1072	CUUGUCCU U AGACAUGA	9300	UCAUGUCU CUGAUGAG	GCCGUUAGGC	CGAA AGGACAAG	27676
9959	1071	UUGUCCU A GACAUGAU	9301	AUCAUGUC CUGAUGAG	GCCGUUAGGC	CGAA AAGGACAA	27677
9968	1062	GACAUGAU A GUCACGCA	9302	UGCUGAC CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGUC	27678
9971	1059	AUGAUGU C ACGCAGCU	9303	AGCUGCGU CUGAUGAG	GCCGUUAGGC	CGAA ACUAUCAU	27679
9982	1048	GCAGCUGU C GCCUUCGA	9304	UCGAAGGC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCUGC	27680
9987	1043	UGUCGCCU U CGAGAACC	9305	GGUUCUCG CUGAUGAG	GCCGUUAGGC	CGAA AGGCGACA	27681
9988	1042	GUCGCCU C GAGAACCA	9306	UGGUUCUC CUGAUGAG	GCCGUUAGGC	CGAA AAGGCGAC	27682
10000	1030	AACCAAU C CACCAUG	9307	CAUGGGUG CUGAUGAG	GCCGUUAGGC	CGAA AUUUGGUU	27683
10010	1020	ACCAUGU U GCUCACGA	9308	UCUGGAGC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGGU	27684
10014	1016	AUGUUGCU C CAGACACU	9309	AGUGUCUG CUGAUGAG	GCCGUUAGGC	CGAA AGCAACAU	27685
10023	1007	CAGACACU C CUUCCAAG	9310	CUUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCUG	27686
10026	1004	ACACUCCU U CCAAGAAG	9311	CUUCUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGUGU	27687
10027	1003	CACUCCU C CAAGAAGU	9312	ACUUCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGUG	27688
10036	994	CAAGAAGU C UCUGUUGC	9313	GCAACAGA CUGAUGAG	GCCGUUAGGC	CGAA ACUUCUUG	27689
10038	992	AGAAGUCU C UGUUGCUC	9314	GAGCAACA CUGAUGAG	GCCGUUAGGC	CGAA AGACUUCU	27690
10042	988	GUCUCUGU U GCUCAUUC	9315	GAAUGAGC CUGAUGAG	GCCGUUAGGC	CGAA ACAGAGAC	27691
10046	984	CUGUUGCU C AUUCCAAG	9316	CUUGGAAU CUGAUGAG	GCCGUUAGGC	CGAA AGCAACAG	27692
10049	981	UUGCUCAU U CCAAGGCA	9317	UGCCUUGG CUGAUGAG	GCCGUUAGGC	CGAA AUGAGCAA	27693
10050	980	UGCUCAU C CAAGGCAG	9318	CUGCCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAUGAGCA	27694
10060	970	AAGGCAGU U GAAGCUGU	9319	ACAGCUUC CUGAUGAG	GCCGUUAGGC	CGAA ACUGCCU	27695
10069	961	GAAGCUGU A AGCUGGGG	9320	CCCAGCU CUGAUGAG	GCCGUUAGGC	CGAA AAGACUUC	27696
10092	938	AAAGCAAU A GCACGACA	9321	UGUCGUGC CUGAUGAG	GCCGUUAGGC	CGAA AUUGCUCU	27697
10110	920	ACACAACU C UCUGCAUG	9322	CAUGCAGA CUGAUGAG	GCCGUUAGGC	CGAA AGUUGUGU	27698
10112	918	ACAACUCU C UGCAUGGU	9323	ACCAUGCA CUGAUGAG	GCCGUUAGGC	CGAA AGAGUUGU	27699
10123	907	CAUGGUGU U GCUCACAA	9324	UUGGAGC CUGAUGAG	GCCGUUAGGC	CGAA ACACCAUG	27700
10127	903	GUGUUGCU C CCAAGCAU	9325	AUGCUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGCAACAC	27701
10136	894	CCAAGCAU C CAACCAAU	9326	AUUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGCUUGG	27702
10165	865	CAGGGCAU A UCCAGGGU	9327	ACCCUGA CUGAUGAG	GCCGUUAGGC	CGAA AUAGCCUG	27703
10167	863	GGGCAU C CAGGUUC	9328	GAACCCUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGCC	27704
10174	856	UCCAGGGU U CCUCAAGA	9329	UCUUGAGG CUGAUGAG	GCCGUUAGGC	CGAA ACCCUGGA	27705
10175	855	CCAGGGU C CUCAAGAU	9330	AUCUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AACCCUGG	27706
10178	852	GGGUCCU C AAGAUCCA	9331	UGGAUCU CUGAUGAG	GCCGUUAGGC	CGAA AGGAACCC	27707
10184	846	CUCAAGAU C CAUGAUUC	9332	GAAUCAUG CUGAUGAG	GCCGUUAGGC	CGAA AUCUUGAG	27708
10191	839	UCCAUGAU U CUGUUUU	9333	AAAAACAG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGGA	27709
10192	838	CCAUGAU C UGUUUUA	9334	UAAAAACA CUGAUGAG	GCCGUUAGGC	CGAA AAUCAUGG	27710
10196	834	GAUUCUGU U UUAACCA	9335	UUGGUAAA CUGAUGAG	GCCGUUAGGC	CGAA ACAGAAUC	27711
10197	833	AUUCUGU U UUAACCA	9336	UUUGGUA CUGAUGAG	GCCGUUAGGC	CGAA AACAGAAU	27712
10198	832	UUCUGUU U UACCAAU	9337	AUUUGGUA CUGAUGAG	GCCGUUAGGC	CGAA AAACAGAA	27713
10199	831	UCUGUUU U ACCAAUA	9338	UAUUUGGU CUGAUGAG	GCCGUUAGGC	CGAA AAAACAGA	27714
10200	830	CUGUUUU A CCAAUAC	9339	GUUUUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAAACAG	27715
10207	823	UACCAAU A CCUUGUGG	9340	CCACAAGG CUGAUGAG	GCCGUUAGGC	CGAA AUUUGGUA	27716
10211	819	AAAUACCU U GUGGCCU	9341	AAGGCCAC CUGAUGAG	GCCGUUAGGC	CGAA AGGUUUU	27717
10219	811	UGUGGCCU U GUGUCUGU	9342	ACAGCACC CUGAUGAG	GCCGUUAGGC	CGAA AGGCCACA	27718
10228	802	GGUGUGU C CAUCCAG	9343	CUUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA ACAGCACC	27719
10232	798	CUGUCCAU C CAAGCCCC	9344	GGGGGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGACAG	27720
10243	787	AGCCCCU U CUUGUUCG	9345	CGAACAA CUGAUGAG	GCCGUUAGGC	CGAA AGGGGGCU	27721
10244	786	GCCCCU C UUGUUCG	9346	GCGAACAA CUGAUGAG	GCCGUUAGGC	CGAA AAGGGGGC	27722
10246	784	CCCCUUCU U GUUCGUA	9347	UAGCGAAC CUGAUGAG	GCCGUUAGGC	CGAA AGAAGGGG	27723
10249	781	CUUCUUGU U CGCUAGAG	9348	CUCUAGCG CUGAUGAG	GCCGUUAGGC	CGAA ACAAGAA	27724
10250	780	UUCUUGU C GCUAGAGU	9349	ACUCUAGC CUGAUGAG	GCCGUUAGGC	CGAA AACAGAA	27725
10254	776	UGUUCGU A GAGUCUU	9350	AAGCACUC CUGAUGAG	GCCGUUAGGC	CGAA AGCGAACA	27726
10262	768	AGAGUGCU U UCUCGUG	9351	CACGGAGA CUGAUGAG	GCCGUUAGGC	CGAA AGCACUCU	27727

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10263	767	GAGUGCUU U CUCCGUGU	9352	ACACGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGCACUC	27728
10264	766	AGUGCUUU C UCCGUGUG	9353	CACACGGA CUGAUGAG	GCCGUUAGGC	CGAA AAAGCACU	27729
10266	764	UGCUUUUU C CGUGUGUC	9354	GACACACG CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGCA	27730
10274	756	CCGUGUGU C UGCACUGU	9355	ACAGUGCA CUGAUGAG	GCCGUUAGGC	CGAA ACACACGG	27731
10283	747	UGCACUGU C AGUGACCU	9356	AGGUCACU CUGAUGAG	GCCGUUAGGC	CGAA ACAGUGCA	27732
10292	738	AGUGACCU C CGACUGCG	9357	CGCAGUCG CUGAUGAG	GCCGUUAGGC	CGAA AGGUCACU	27733
10302	728	GACUGCGU C UUGAGUGG	9358	CCACUCAA CUGAUGAG	GCCGUUAGGC	CGAA ACGCAGUC	27734
10304	726	CUGCGUCU U GAGUGGCG	9359	CGCCACUC CUGAUGAG	GCCGUUAGGC	CGAA AGACGCAG	27735
10316	714	UGGCGUGU C UUGGUGCA	9360	UGCACCAA CUGAUGAG	GCCGUUAGGC	CGAA ACACGCCA	27736
10318	712	GCGUGUCU U GGUGCAUC	9361	GAUGCACC CUGAUGAG	GCCGUUAGGC	CGAA AGACACGC	27737
10326	704	UGGUGCAU C UUCAUAC	9362	GUAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGCACCA	27738
10328	702	GUGCAUCU U CCAUACCU	9363	AGGUAUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAUGCAC	27739
10329	701	UGCAUCUU C CAUACCCU	9364	CAGGUAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGCA	27740
10333	697	UCUCCAU A CCUGACGU	9365	ACGUCAGG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAGA	27741
10342	688	CCUGACGU A GACUGCUG	9366	CAGCAGUC CUGAUGAG	GCCGUUAGGC	CGAA ACGUCAGG	27742
10354	676	UGCUGACU U UGUGCACC	9367	GGUGCACA CUGAUGAG	GCCGUUAGGC	CGAA AGUCAGCA	27743
10355	675	GCUGACUU U GUGCACCA	9368	UGGUGCAC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAGC	27744
10369	661	CCAACAGU C GAUGUCUU	9369	AAGACAUC CUGAUGAG	GCCGUUAGGC	CGAA ACUGUUGG	27745
10375	655	GUCGAUGU C UUCUGGAU	9370	AUCCAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACAUCGAC	27746
10377	653	CGAUGUCU U CUGGAUCA	9371	UGAUCCAG CUGAUGAG	GCCGUUAGGC	CGAA AGACAUCG	27747
10378	652	GAUGUCUU C UGGAUCAU	9372	AUGAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAGACAUC	27748
10384	646	UUCUGGAU C AUUACCAG	9373	CUGGUAUU CUGAUGAG	GCCGUUAGGC	CGAA AUCCAGAA	27749
10387	643	UGGAUCAU U ACCAGCCG	9374	CGCGUGGU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUCCA	27750
10388	642	GGAUCAUU A CCAGCCGA	9375	UCCGUGGU CUGAUGAG	GCCGUUAGGC	CGAA AAUGAUCC	27751
10410	620	CUGGGCAU U CAUAAGUG	9376	CACUUAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGCCCAG	27752
10411	619	UGGGCAUU C AUAAGUGA	9377	UCACUUAU CUGAUGAG	GCCGUUAGGC	CGAA AAUGCCCA	27753
10414	616	GCAUUCAU A AGUGAUAG	9378	CUAUCACU CUGAUGAG	GCCGUUAGGC	CGAA AUGAAUGC	27754
10421	609	UAAGUGAU A GUAUCAUC	9379	GAUGAUAC CUGAUGAG	GCCGUUAGGC	CGAA AUCACUUA	27755
10424	606	GUGAUAGU A UCAUCGCA	9380	UGC GAUGA CUGAUGAG	GCCGUUAGGC	CGAA ACUAUCAC	27756
10426	604	GAUAGUAU C AUCGCACA	9381	UGUGCGAG CUGAUGAG	GCCGUUAGGC	CGAA AUACUAUC	27757
10429	601	AGUAUCAU C GCACAUGU	9382	ACAUGUGC CUGAUGAG	GCCGUUAGGC	CGAA AUGAUACU	27758
10438	592	GCACAUGU A UCCACAUC	9383	AUGUGGGA CUGAUGAG	GCCGUUAGGC	CGAA ACAUGUGC	27759
10440	590	ACAUGUAU C CCACAUC	9384	GGAUGUGG CUGAUGAG	GCCGUUAGGC	CGAA AUACAUGU	27760
10447	583	UCCACAUC C CAUUGCUC	9385	GAGCAAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGGA	27761
10451	579	ACAUCCAU U GCUCUGAC	9386	GUCAGAGC CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUGU	27762
10455	575	CCAUUGCU C UGACAAUG	9387	CAUUGUCA CUGAUGAG	GCCGUUAGGC	CGAA AGCAAUGG	27763
10467	563	CAAUGCAU A GGUUCUUU	9388	AAAGAACC CUGAUGAG	GCCGUUAGGC	CGAA AUGCAUUG	27764
10471	559	GCAUAGGU U CUUCCAG	9389	CUGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA ACCUAUGC	27765
10472	558	CAUAGUUU C UUCCAGC	9390	UCUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AACCUAUG	27766
10474	556	UAGGUUCU U UCCAGCAG	9391	CUGCUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAACCUA	27767
10475	555	AGGUUCUU U CCAGCAGC	9392	GCUGCUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAACCU	27768
10476	554	GGUUCUUU C CAGCAGCU	9393	AGCUGCUG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAACC	27769
10487	543	GCAGCUGU U GGAUUCGU	9394	ACGAUUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCUGC	27770
10493	537	GUUGGAUU C GUGAUGAC	9395	GUCAUCAC CUGAUGAG	GCCGUUAGGC	CGAA AUUCCAAC	27771
10504	526	GAUGACAU C UGUGACGU	9396	ACGUCACA CUGAUGAG	GCCGUUAGGC	CGAA AUGUCAUC	27772
10513	517	UGUGACGU C AGUAGCAU	9397	AUGCUAGU CUGAUGAG	GCCGUUAGGC	CGAA ACGUCACA	27773
10517	513	ACGUCAGU A GCAUUUAC	9398	GUAAAUUC CUGAUGAG	GCCGUUAGGC	CGAA ACUGACGU	27774
10522	508	AGUAGCAU U UACCGUCA	9399	UGACGGUA CUGAUGAG	GCCGUUAGGC	CGAA AUGCUACU	27775
10523	507	GUAGCAUU U ACCGUCAU	9400	AUGACGGU CUGAUGAG	GCCGUUAGGC	CGAA AAUGCUAC	27776
10524	506	UAGCAUUU A CCGUCAUC	9401	GAUGACGG CUGAUGAG	GCCGUUAGGC	CGAA AAAUGCUA	27777
10529	501	UUUACCGU C AUCAUAC	9402	GUGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACGGUAAA	27778
10532	498	ACCGUCAU C AUCACCUU	9403	AAGGUGAU CUGAUGAG	GCCGUUAGGC	CGAA AUGACGGU	27779
10535	495	GUCAUCAU C ACCUCCCC	9404	GGGAAGGU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGAC	27780
10540	490	CAUACCUU U CCCUUGGA	9405	UCCAAGGG CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUG	27781
10541	489	AUCACCUU C CCUUGGAA	9406	UUCCAAGG CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGAU	27782
10545	485	CCUCCCCU U GGAAGUUA	9407	UAACUUC CUGAUGAG	GCCGUUAGGC	CGAA AGGGAAGG	27783
10552	478	UUGGAAGU U AGAGAGGG	9408	CCCUUCUC CUGAUGAG	GCCGUUAGGC	CGAA ACUCCAA	27784
10553	477	UGGAAGUU A GAGAGGGU	9409	ACCCUCUC CUGAUGAG	GCCGUUAGGC	CGAA AACUCCA	27785
10562	468	GAGAGGGU A ACUGCUCC	9410	GGAGCAGU CUGAUGAG	GCCGUUAGGC	CGAA ACCCUCUC	27786
10569	461	UAACUGCU C CUACGCUG	9411	CAGCGUAG CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUUA	27787
10572	458	CUGCUCCU A CGCUGGCG	9412	CGCCAGCG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCAG	27788
10583	447	CUGGCGAU C AGGCCAAU	9413	AUUGGCCU CUGAUGAG	GCCGUUAGGC	CGAA AUCGCCAG	27789

Table VIII

10592	438	AGGCCAAU C AUGACUGC	9414	GCAGUCAU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGCCU	27790
10604	426	ACUGCAAU U CCGUCUUU	9415	AAGACCGG CUGAUGAG	GCCGUUAGGC	CGAA AUUGCAGU	27791
10605	425	CUGCAAUU C CGGUCUUU	9416	AAAGACCG CUGAUGAG	GCCGUUAGGC	CGAA AAUUGCAG	27792
10610	420	AUUCGCGU C UUUCCUCC	9417	GGAGGAAA CUGAUGAG	GCCGUUAGGC	CGAA ACCGGAAU	27793
10612	418	UCCGUCUU U UCCUCCUC	9418	GAGGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AGACCGGA	27794
10613	417	CCGGUCUU U CCUCCUCU	9419	AGAGGAGG CUGAUGAG	GCCGUUAGGC	CGAA AAGACCGG	27795
10614	416	CGGUCUUU C CUCCUCUU	9420	AAGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAAGACCG	27796
10617	413	UCUUUCCU C CUCUUUUC	9421	GAAAAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAAAGA	27797
10620	410	UUCUCCU C UUUUCUUU	9422	AAAGAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGAA	27798
10622	408	CCUCCUCU U UUCUUUUG	9423	CAAAAGAA CUGAUGAG	GCCGUUAGGC	CGAA AGAGGAGG	27799
10623	407	CUCCUCUU U UCUUUUGU	9424	ACAAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGGAG	27800
10624	406	UCCUCUUU U CUUUUGUU	9425	AACAAAAG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAGGA	27801
10625	405	CCUCUUUU C UUUUGUUU	9426	AAACAAAA CUGAUGAG	GCCGUUAGGC	CGAA AAAAGAGG	27802
10627	403	UCUUUUCU U UUGUUUUG	9427	CAAAACAA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAAGA	27803
10628	402	CUUUUCUU U UGUUUUGA	9428	UCAAAACA CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAAG	27804
10629	401	UUUUUCCU U GUUUUGAG	9429	CUCAAAAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGAAAA	27805
10632	398	UCUUUUGU U UUGAGCUC	9430	GAGCUCAA CUGAUGAG	GCCGUUAGGC	CGAA ACAAAGA	27806
10633	397	CUUUUGUU U UGAGCUCU	9431	GGAGCUCA CUGAUGAG	GCCGUUAGGC	CGAA AACAAAAG	27807
10634	396	UUUUGUUU U GAGCUCUG	9432	CGGAGCUC CUGAUGAG	GCCGUUAGGC	CGAA AAACAAAA	27808
10640	390	UUUGAGCU C CGCCGAUU	9433	AAUCGGCG CUGAUGAG	GCCGUUAGGC	CGAA AGCUCAAA	27809
10648	382	CCGCCGAU U GAUAGCAC	9434	GUGCUAUC CUGAUGAG	GCCGUUAGGC	CGAA AUCGGCGG	27810
10652	378	CGAUUGAU A GCACUGGU	9435	ACCAGUGC CUGAUGAG	GCCGUUAGGC	CGAA AUCAAUCG	27811
10661	369	GCACUGGU C AAGGUCCC	9436	GGGACCUU CUGAUGAG	GCCGUUAGGC	CGAA ACCAGUGC	27812
10667	363	GUCAAGGU C CCUAGUUC	9437	GAACUAGG CUGAUGAG	GCCGUUAGGC	CGAA ACCUUGAC	27813
10671	359	AGGUCCCU A GUUCCUUC	9438	GAAGGAAC CUGAUGAG	GCCGUUAGGC	CGAA AGGGACCU	27814
10674	356	UCCCUAGU U CCUUCUUA	9439	UAAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA ACTUAGGA	27815
10675	355	CCCUAGUU C CUUCUUA	9440	UUAAGAAG CUGAUGAG	GCCGUUAGGC	CGAA AACUAGGG	27816
10678	352	UAGUCCU U CUUAAAAC	9441	GUUUUAAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAACUA	27817
10679	351	AGUUCUU C UUAAAAACU	9442	AGUUUUA CUGAUGAG	GCCGUUAGGC	CGAA AAGGAACU	27818
10681	349	UUCUUCU U AAAACUCA	9443	UGAGUUU CUGAUGAG	GCCGUUAGGC	CGAA AGAAGGAA	27819
10682	348	UCCUUCU A AAACUCAG	9444	CUGAGUU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGGA	27820
10688	342	UUA AAAACU C AGAAGGUG	9445	CACCUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGUUUUA	27821
10698	332	GAAGGUGU U UCAUCGCU	9446	AGCGAUGA CUGAUGAG	GCCGUUAGGC	CGAA ACACCUUC	27822
10699	331	AAGGUGUU U CAUCGCU	9447	CAGCGAUG CUGAUGAG	GCCGUUAGGC	CGAA AACACCUU	27823
10700	330	AGGUGUUU C AUCGCU	9448	ACAGCGAU CUGAUGAG	GCCGUUAGGC	CGAA AAACACCU	27824
10703	327	UGUUUCAU C GCUGUUUG	9449	CAACAGC CUGAUGAG	GCCGUUAGGC	CGAA AUGAAACA	27825
10709	321	AUCGCUU U UGUUUUGU	9450	AACAAACA CUGAUGAG	GCCGUUAGGC	CGAA ACAGCGAU	27826
10710	320	UCGCUUU U GUUUUGU	9451	GAACAAAC CUGAUGAG	GCCGUUAGGC	CGAA AACACCGA	27827
10713	317	CUGUUUGU U UGUUCACA	9452	UGUGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACAAACAG	27828
10714	316	UGUUUGUU U GUUCACAC	9453	GUGUGAAC CUGAUGAG	GCCGUUAGGC	CGAA AACAAACA	27829
10717	313	UUGUUUGU U CACACCUC	9454	GAGGUGUG CUGAUGAG	GCCGUUAGGC	CGAA ACAAACA	27830
10718	312	UGUUUGUU C ACACCUCU	9455	AGAGGUGU CUGAUGAG	GCCGUUAGGC	CGAA AACAAACA	27831
10725	305	UCACACCU C UCCAUCGA	9456	UCGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGGUGUGA	27832
10727	303	ACACCUCU C CAUCGAUC	9457	GAUCGAUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGGUGU	27833
10731	299	CUCUCCAU C GAUCCAGC	9458	GCUGGAUC CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGAG	27834
10735	295	CCAUCGAU C CAGCACUG	9459	CAGUGCUG CUGAUGAG	GCCGUUAGGC	CGAA AUCGAUGG	27835
10746	284	GCACUGCU C GGUUCGGA	9460	UCCGACCC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUGC	27836
10751	279	GCUCGGGU C GGAGCAAU	9461	AUUGCUCU CUGAUGAG	GCCGUUAGGC	CGAA ACCCGAGC	27837
10760	270	GGAGCAAU U GCUGUGAA	9462	UUCACAGC CUGAUGAG	GCCGUUAGGC	CGAA AUUGCUCU	27838
10800	230	ACACAAAU C GUUUUGGC	9463	GCCAAUAC CUGAUGAG	GCCGUUAGGC	CGAA AUUUUGUU	27839
10803	227	CAAAUCGU A UUGGCCCC	9464	GGGGCCAA CUGAUGAG	GCCGUUAGGC	CGAA ACGAUUUG	27840
10805	225	AAUCGUU U GGCCCCU	9465	AAGGGGCC CUGAUGAG	GCCGUUAGGC	CGAA AUACGAUU	27841
10813	217	UGGCCCCU U GCCGUCGA	9466	UCGACGGC CUGAUGAG	GCCGUUAGGC	CGAA AGGGGCCA	27842
10819	211	CUUGCCGU C GAUCAGGC	9467	GCCUGAUC CUGAUGAG	GCCGUUAGGC	CGAA ACGGCAAG	27843
10823	207	CCGUCGAU C AGGCUCAA	9468	UUGAGCCU CUGAUGAG	GCCGUUAGGC	CGAA AUCGACGG	27844
10829	201	AUCAGGCU C AACAUAGC	9469	GCUAUGUU CUGAUGAG	GCCGUUAGGC	CGAA AGCCUGAU	27845
10835	195	CUCAACAU A GCCUCUUU	9470	AAGAGGGC CUGAUGAG	GCCGUUAGGC	CGAA AUGUUGAG	27846
10841	189	AUAGCCCU C UUCAGUCC	9471	GGACUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGGGCUAU	27847
10843	187	AGCCUCU U CAGUCCAA	9472	UUGGACUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGGGCU	27848
10844	186	GCCUCUU C AGUCCAAU	9473	AUUGGACU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGGGC	27849
10848	182	UCUUCAGU C CAUCCAAG	9474	CUUGAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUGAAGA	27850
10853	177	AGUCCAAU C AAGGACAA	9475	UUGUCCUU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGACU	27851

Table VIII

10874	156	CGGGGCAU U CCGCGUUU	9476	AAACGCGG CUGAUGAG	GCCGUUAGGC	CGAA AUGCCCCG	27852
10875	155	GGGGCAU C CCGGUUUU	9477	AAAACGCG CUGAUGAG	GCCGUUAGGC	CGAA AAUGCCCC	27853
10881	149	UCCGCGU U UAGCAUA	9478	UAUGCUA CUGAUGAG	GCCGUUAGGC	CGAA ACGCGGAA	27854
10882	148	UCCGCGU U UAGCAUAU	9479	AUAUGCUA CUGAUGAG	GCCGUUAGGC	CGAA AACGCGGA	27855
10883	147	CCGCGUUU U AGCAUAU	9480	AAUAUGCU CUGAUGAG	GCCGUUAGGC	CGAA AAACGCGG	27856
10884	146	CGCGUUU A GCAUAUUG	9481	CAUAUGC CUGAUGAG	GCCGUUAGGC	CGAA AAAACGCG	27857
10889	141	UUUAGCAU A UUGACAGC	9482	GCUGUCA CUGAUGAG	GCCGUUAGGC	CGAA AUGCUAAA	27858
10891	139	UAGCAUAU U GACAGCCC	9483	GGGCGUC CUGAUGAG	GCCGUUAGGC	CGAA AUAUGCUA	27859
10904	126	GCCCGGCU C UUGCCGGG	9484	CCCAGCAA CUGAUGAG	GCCGUUAGGC	CGAA AGCCGGGC	27860
10906	124	CCGGCUCU U GCCGGGCC	9485	GGCCCGGC CUGAUGAG	GCCGUUAGGC	CGAA AGAGCCGG	27861
10917	113	CGGGCCCU C CUGGUUUC	9486	GAAACCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGGCCCG	27862
10923	107	CUCUGGU U UCUAGAC	9487	GUCUAAGA CUGAUGAG	GCCGUUAGGC	CGAA ACCAGGAG	27863
10924	106	UCCUGGU U CUUAGACA	9488	UGUCUAG CUGAUGAG	GCCGUUAGGC	CGAA AACCAGGA	27864
10925	105	CCUGGUU C UUAGACAU	9489	AUGUCUA CUGAUGAG	GCCGUUAGGC	CGAA AAACCAGG	27865
10927	103	UGUUUCU U AGACAUUG	9490	CAUGUCU CUGAUGAG	GCCGUUAGGC	CGAA AGAAACCA	27866
10928	102	GGUUUCU A GACAUCGA	9491	UCGAUGC CUGAUGAG	GCCGUUAGGC	CGAA AAGAAACC	27867
10934	96	UUAGACAU C GAGAUCU	9492	AAGAUCU CUGAUGAG	GCCGUUAGGC	CGAA AUGUCUAA	27868
10940	90	AUCGAGAU C UUCGUGCU	9493	AGCACGAA CUGAUGAG	GCCGUUAGGC	CGAA AUCUGCAU	27869
10942	88	CGAGAUU C GUGCUAA	9494	UUAGCAC CUGAUGAG	GCCGUUAGGC	CGAA AGAUCUCG	27870
10943	87	GAGAUCU C GUGCUAAG	9495	CUUAGCAC CUGAUGAG	GCCGUUAGGC	CGAA AAGAUCUC	27871
10949	81	UUCGUGCU A AGAAACAG	9496	CUGUUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGCACGAA	27872
10960	70	AAACAGCU C GCACUGUG	9497	CACAGUC CUGAUGAG	GCCGUUAGGC	CGAA AGCUGUUU	27873
10970	60	CACUGUGU U AAUUGUG	9498	CAACAAGU CUGAUGAG	GCCGUUAGGC	CGAA ACACAGUG	27874
10971	59	ACUGUGU A AUUGUGU	9499	ACAACAAU CUGAUGAG	GCCGUUAGGC	CGAA AACACAGU	27875
10974	56	GUGUAAU U GUUGUAA	9500	UUAACAAC CUGAUGAG	GCCGUUAGGC	CGAA AUUAACAC	27876
10977	53	UUAAUUGU U GUUAAUCC	9501	GAUUAAC CUGAUGAG	GCCGUUAGGC	CGAA ACAAUUAA	27877
10980	50	AUUGUGU U AAUCCUCA	9502	UGAGGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAACAAU	27878
10981	49	UUGUGUU A AUCCUCAC	9503	GUGAGGAU CUGAUGAG	GCCGUUAGGC	CGAA AACAACAA	27879
10984	46	UUGUAAU C CUCACAAA	9504	UUUGUGAG CUGAUGAG	GCCGUUAGGC	CGAA AUUAACAA	27880
10987	43	UUAAUCCU C ACAACAC	9505	GUGUUUGU CUGAUGAG	GCCGUUAGGC	CGAA AGGAUUA	27881
10997	33	CAAAACAU A CUAAGUUU	9506	AAACUAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUUUG	27882
11000	30	ACACUACU A AGUUGUC	9507	GACAAACU CUGAUGAG	GCCGUUAGGC	CGAA AGUAGUGU	27883
11004	26	UACUAGU U UGUCAGCU	9508	AGCUGACA CUGAUGAG	GCCGUUAGGC	CGAA ACUAGUA	27884
11005	25	ACUAGUU U GUCAGCUC	9509	GAGCUGAC CUGAUGAG	GCCGUUAGGC	CGAA AACUAGU	27885
11008	22	AAGUUUGU C AGCUCACA	9510	UGUGAGCU CUGAUGAG	GCCGUUAGGC	CGAA ACAACUU	27886
11013	17	UGUCAGCU C ACACAGGC	9511	GCCUGUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCUGACA	27887

Input Sequence = AF196835_rc. Cut

Site = UH/.

Arm Length = 8. Core Sequence = CUGAUGAG X CGAA (X = GCCGUUAGGC or other stem II)

AF196835_rc reverse complement of West Nile virus strain NY99-flamingo382-99, complete genome

Table IX

Table IX: WNV minus strand Inozyme and Target Sequence

Pos	Pos (+str)	Substrate	Seq ID	Ribozyme	Rz Seq ID
14	11016	CUGUGUUC U CGCACCAC	9512	GUGGUGCG CUGAUGAG GCCGUUAGGC CGAA IAACACAG	27888
18	11012	GUUCUCGC A CCACCAGC	9513	GCUGGUGG CUGAUGAG GCCGUUAGGC CGAA ICGAGAAC	27889
20	11010	UCUCGCAC C ACCAGCCA	9514	UGGCGUGU CUGAUGAG GCCGUUAGGC CGAA IUGCGAGA	27890
21	11009	CUCGCACC A CCAGCCAC	9515	GUGGCGUG CUGAUGAG GCCGUUAGGC CGAA IGUGCGAG	27891
23	11007	CGCACCAC C AGCCACCA	9516	UGGUGGCU CUGAUGAG GCCGUUAGGC CGAA IUGGUGCG	27892
24	11006	GCACCACC A GCCACCAU	9517	AUGGUGGC CUGAUGAG GCCGUUAGGC CGAA IGUGGUGC	27893
27	11003	CCACCAGC C ACCAUUGU	9518	ACAAUGGU CUGAUGAG GCCGUUAGGC CGAA ICUGGUGG	27894
28	11002	CACCAGCC A CCAUUGUC	9519	GACAAUGG CUGAUGAG GCCGUUAGGC CGAA IGCUGGUG	27895
30	11000	CCAGCCAC C AUUGUCGG	9520	CCGACAAU CUGAUGAG GCCGUUAGGC CGAA IUGGCGUG	27896
31	10999	CAGCCACC A UUGUCGGC	9521	GCCGACAA CUGAUGAG GCCGUUAGGC CGAA IGUGGCUG	27897
42	10988	GUCGGCGC A CUGUGCCG	9522	CGGCACAG CUGAUGAG GCCGUUAGGC CGAA ICGCCGAC	27898
44	10986	CGGCGCAC U GUGCCGUG	9523	CACGGCAC CUGAUGAG GCCGUUAGGC CGAA IUGCGCCG	27899
49	10981	CACUGUGC C GUGUGGCU	9524	AGCCACAC CUGAUGAG GCCGUUAGGC CGAA ICACAGUG	27900
57	10973	CGUGUGGC U GGUUGUGC	9525	GCACAACC CUGAUGAG GCCGUUAGGC CGAA ICCACAGC	27901
66	10964	GGUUGUGC A GAGCAGAA	9526	UUCUGCUC CUGAUGAG GCCGUUAGGC CGAA ICACAACC	27902
71	10959	UGCAGAGC A GAAGAUCU	9527	AGAUCUUC CUGAUGAG GCCGUUAGGC CGAA ICUCUGCA	27903
79	10951	AGAAGAUC U CUAAGUCU	9528	AGACUAGG CUGAUGAG GCCGUUAGGC CGAA IAUUCUCU	27904
81	10949	AAGAUCUC C UAGUCUAU	9529	AUAGACUA CUGAUGAG GCCGUUAGGC CGAA IAGAUCUU	27905
82	10948	AGAUCUCC U AGUCUAUC	9530	GAUAGACU CUGAUGAG GCCGUUAGGC CGAA IGAGAUCU	27906
87	10943	UCCUAGUC U AUCCCAGG	9531	CCUGGGAU CUGAUGAG GCCGUUAGGC CGAA IACUAGGA	27907
91	10939	AGUCUAUC C CAGGUGUC	9532	GACACCUG CUGAUGAG GCCGUUAGGC CGAA IAUAGACU	27908
92	10938	GUCUAUCC C AGGUGUCA	9533	UGACACCU CUGAUGAG GCCGUUAGGC CGAA IUGGAGAC	27909
93	10937	UCUAUCCC A GGUGUCA	9534	UUGACACC CUGAUGAG GCCGUUAGGC CGAA IGGAUAGA	27910
100	10930	CAGGUGUC A AUAUGCUG	9535	CAGCAUAU CUGAUGAG GCCGUUAGGC CGAA IACACCUG	27911
107	10923	CAUAUUGC U GUUUUGUU	9536	AACAAAAC CUGAUGAG GCCGUUAGGC CGAA ICAUAUUG	27912
131	10899	UUUGUGGC A CGGGGUCU	9537	AGACCCCG CUGAUGAG GCCGUUAGGC CGAA ICCACAAA	27913
139	10891	ACGGGGUC U CCACUAAC	9538	GUUAGUGG CUGAUGAG GCCGUUAGGC CGAA IACCCCGU	27914
141	10889	GGGGUCUC C ACUAACCU	9539	AGGUUAGU CUGAUGAG GCCGUUAGGC CGAA IAGACCCC	27915
142	10888	GGGUCUCC A CUAACCUC	9540	GAGGUUAG CUGAUGAG GCCGUUAGGC CGAA IGAGACCC	27916
144	10886	GUCUCCAC U AACCUAUA	9541	UAGAGGUU CUGAUGAG GCCGUUAGGC CGAA IUGGAGAC	27917
148	10882	CCACUAAC C UCUAGUCC	9542	GGACUAGA CUGAUGAG GCCGUUAGGC CGAA IUUAGUGG	27918
149	10881	CACUAACC U CUAGUCCU	9543	AGGACUAG CUGAUGAG GCCGUUAGGC CGAA IGUUAGUG	27919
151	10879	CUAACCUC U AGUCCUUC	9544	GAAGGACU CUGAUGAG GCCGUUAGGC CGAA IAGGUUAG	27920
156	10874	CUCUAGUC C UCCCCUG	9545	CAGGGGAA CUGAUGAG GCCGUUAGGC CGAA IACUAGAG	27921
157	10873	UCUAGUCC U UCCCCUGA	9546	UCAGGGGA CUGAUGAG GCCGUUAGGC CGAA IGACUAGA	27922
160	10870	AGUCCUUC C CCUGACCU	9547	AGGUCAGG CUGAUGAG GCCGUUAGGC CGAA IAAGGACU	27923
161	10869	GUCUUCUCC C CUGACCUA	9548	UAGGUCAG CUGAUGAG GCCGUUAGGC CGAA IGAAGGAC	27924
162	10868	UUUUUCCC C UGACCUAC	9549	GUAGGUCA CUGAUGAG GCCGUUAGGC CGAA IGAAGGA	27925
163	10867	CCUUCCCC U GACCUACA	9550	UGUAGGUC CUGAUGAG GCCGUUAGGC CGAA IGGGAAGG	27926
167	10863	CCCUGAC C UACAGCUU	9551	AAGCUGUA CUGAUGAG GCCGUUAGGC CGAA IUCAGGGG	27927
168	10862	CCCUGACC U ACAGCUUC	9552	GAAGCUGU CUGAUGAG GCCGUUAGGC CGAA IGUCAGGG	27928
171	10859	UGACCUAC A GCUUCAGU	9553	ACUGAAGC CUGAUGAG GCCGUUAGGC CGAA IUAGGUCA	27929
174	10856	CCUACAGC U UCAGUCAG	9554	CUGACUGA CUGAUGAG GCCGUUAGGC CGAA ICUGUAGG	27930
177	10853	ACAGCUUC A GUCAGGCU	9555	AGCCUGAC CUGAUGAG GCCGUUAGGC CGAA IAAGCUGU	27931
181	10849	CUUCAGUC A GGCUGGGC	9556	GCCCAGCC CUGAUGAG GCCGUUAGGC CGAA IACGAAG	27932
185	10845	AGUCAGGC U GGGCCGUG	9557	CACGGCCC CUGAUGAG GCCGUUAGGC CGAA ICCUGACU	27933
190	10840	GGCUGGGC C GUGCACU	9558	AAGUGCAC CUGAUGAG GCCGUUAGGC CGAA ICCAGGCC	27934
195	10835	GGCCGUGC A CUUUAAAC	9559	GUUUAAAG CUGAUGAG GCCGUUAGGC CGAA ICACGGCC	27935
197	10833	CCGUGCAC U UUAACCG	9560	CGGUUAA CUGAUGAG GCCGUUAGGC CGAA IUGCACGG	27936
204	10826	CUUUAAAC C GCGGGGUC	9561	GACCCCGC CUGAUGAG GCCGUUAGGC CGAA IUUUAAAG	27937
213	10817	GCGGGGUC U CCUCUAAC	9562	GUUAGAGG CUGAUGAG GCCGUUAGGC CGAA IACCCCGC	27938
215	10815	GGGGUCUC C UCUAACCU	9563	AGGUUAGA CUGAUGAG GCCGUUAGGC CGAA IAGACCCC	27939
216	10814	GGGUCUCC U CUAACCUC	9564	GAGGUUAG CUGAUGAG GCCGUUAGGC CGAA IAGAGCCC	27916
218	10812	GUCUCCUC U AACCUAUA	9565	UAGAGGUU CUGAUGAG GCCGUUAGGC CGAA IAGGAGAC	27940
222	10808	CCUCUAAC C UCUAGUCC	9566	GGACUAGA CUGAUGAG GCCGUUAGGC CGAA IUUAGAGG	27941
223	10807	CUCUAACC U CUAGUCCU	9567	AGGACUAG CUGAUGAG GCCGUUAGGC CGAA IGUUAGAG	27942
225	10805	CUAACCUC U AGUCCUUU	9568	AAAGGACU CUGAUGAG GCCGUUAGGC CGAA IAGGUUAG	27943

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230	10800	CUCUAGUC C UUUCGCCC	9569	GGGCGAAA CUGAUGAG	GCCGUUAGGC	CGAA IACUAGAG	27944
231	10799	UCUAGUCC U UUCGCCC	9570	AGGGCGAA CUGAUGAG	GCCGUUAGGC	CGAA IGACUAGA	27945
237	10793	CCUUUCGC C CUGGUUAA	9571	UUAACCA CUGAUGAG	GCCGUUAGGC	CGAA ICGAAAGG	27946
238	10792	CUUUCGCC C UGGUUAAC	9572	GUUAACCA CUGAUGAG	GCCGUUAGGC	CGAA IGCAGAAAG	27947
239	10791	UUUCGCCC U GGUUAACA	9573	UGUUAACC CUGAUGAG	GCCGUUAGGC	CGAA IGGCGAAA	27948
247	10783	UGGUUAAC A CCAUUAAC	9574	GGUUAUGG CUGAUGAG	GCCGUUAGGC	CGAA IUUAACCA	27949
249	10781	GUUAACAC C AUUACCGG	9575	CCGGUAAU CUGAUGAG	GCCGUUAGGC	CGAA IUGUUAAC	27950
250	10780	UUAACACC A UUACCGGG	9576	CCCAGUAA CUGAUGAG	GCCGUUAGGC	CGAA IGUGUUAAC	27951
255	10775	ACCAUUAAC C GGGGCUAG	9577	CUAGCCCC CUGAUGAG	GCCGUUAGGC	CGAA IUAAUGGU	27952
261	10769	ACCGGGGC U AGGGCCGC	9578	GCGGCCCC CUGAUGAG	GCCGUUAGGC	CGAA ICCCGGU	27953
267	10763	GCUAGGGC C GCGUGGGG	9579	CCCCACGC CUGAUGAG	GCCGUUAGGC	CGAA ICCCUAGC	27954
287	10743	UGGUUUGC C UUUGUUA	9580	UUAACAAA CUGAUGAG	GCCGUUAGGC	CGAA ICAAACCA	27955
288	10742	GGUUGGCC U UUGUUAAC	9581	GUUAACAA CUGAUGAG	GCCGUUAGGC	CGAA IGCAAACC	27956
297	10733	UUGUUAAC C CAGUCCUC	9582	GAGGACUG CUGAUGAG	GCCGUUAGGC	CGAA IUUAACAA	27957
298	10732	UGUUAACC C AGUCCUCC	9583	GGAGGACU CUGAUGAG	GCCGUUAGGC	CGAA IGUUAACA	27958
299	10731	GUUAACCC A GUCCUCCU	9584	AGGAGGAC CUGAUGAG	GCCGUUAGGC	CGAA IGGUUAAC	27959
303	10727	ACCCAGUC C UCCUGGGG	9585	CCCCAGGA CUGAUGAG	GCCGUUAGGC	CGAA IACUGGGU	27960
457	10573	ACCCAGUC C UCCUGGGG	9585	CCCCAGGA CUGAUGAG	GCCGUUAGGC	CGAA IACUGGGU	27960
304	10726	CCAGUCC U CCUGGGGC	9586	GCCCCAGG CUGAUGAG	GCCGUUAGGC	CGAA IAGCUGGG	27961
306	10724	CAGUCCUC C UGGGGCAC	9587	GUGCCCCA CUGAUGAG	GCCGUUAGGC	CGAA IAGGACUG	27962
307	10723	AGUCCUCC U GGGGCACU	9588	AGUGCCCC CUGAUGAG	GCCGUUAGGC	CGAA IAGGACU	27963
313	10717	CCUGGGGC A CUUUCGCA	9589	UGCGAUAG CUGAUGAG	GCCGUUAGGC	CGAA ICCCCAGG	27964
315	10715	UGGGGCAC U AUCGAGCA	9590	UCUGCGAU CUGAUGAG	GCCGUUAGGC	CGAA IUGCCCCA	27965
321	10709	ACUUCGCG A GACUCCAC	9591	GUGCAGUC CUGAUGAG	GCCGUUAGGC	CGAA ICGAUAGU	27966
325	10705	UCGAGAC U GCACUCUC	9592	GAGAGUGC CUGAUGAG	GCCGUUAGGC	CGAA IUCUGCGA	27967
328	10702	CAGACUGC A CUUCCGC	9593	GCGGAGAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGUCUG	27968
330	10700	GACUCCAC U CUCCGCAG	9594	CUCCGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGCAGUC	27969
332	10698	CUGCACUC U CCGCAGAG	9595	CUCUGCGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUGCAG	27970
334	10696	GCACUCUC C GCAGAGUA	9596	UACUCUGC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUGC	27971
337	10693	CUCUCCGC A GAGUAGCA	9597	UGCUACUC CUGAUGAG	GCCGUUAGGC	CGAA ICGGAGAG	27972
345	10685	AGAGUAGC A CGCCGUAG	9598	CUACGGCG CUGAUGAG	GCCGUUAGGC	CGAA ICUACUCU	27973
349	10681	UAGCACGC C GUAGCGUG	9599	CACGCUAC CUGAUGAG	GCCGUUAGGC	CGAA ICGUGCUA	27974
361	10669	GCUGGUC U GACAUUGG	9600	CAAUGUC CUGAUGAG	GCCGUUAGGC	CGAA IACCACGC	27975
365	10665	GGUCUGAC A UUGGGCUU	9601	AAGCCAA CUGAUGAG	GCCGUUAGGC	CGAA IUCAGACC	27976
372	10658	GAUUGGC U UUGAAGUU	9602	AACUCAA CUGAUGAG	GCCGUUAGGC	CGAA ICCCAAUG	27977
383	10647	GAAGUUAAC A ACAUGUGG	9603	CCACAUGU CUGAUGAG	GCCGUUAGGC	CGAA IUAAUUC	27978
386	10644	GUUAACAAC A UGUGGGGU	9604	ACCCACA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUUAAC	27979
396	10634	GUGGGGUC C UCCUCCG	9605	CGAAGGA CUGAUGAG	GCCGUUAGGC	CGAA IACCCAC	27980
397	10633	UGGGGUCC U CCUCCGA	9606	UCGAAGG CUGAUGAG	GCCGUUAGGC	CGAA IGACCCCA	27981
399	10631	GGGUCCUC C UUCGAGA	9607	UCUCGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGACCC	27982
400	10630	GGUCCUCC U UCCGAGAC	9608	GUCUCGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGACCC	27983
403	10627	CCUCCUCC C GAGACGGU	9609	AGCCUCC CUGAUGAG	GCCGUUAGGC	CGAA IAAGGAGG	27984
414	10616	CACGGUUC U GAGGCUU	9610	AAGCCUC CUGAUGAG	GCCGUUAGGC	CGAA IAACCGUC	27985
421	10609	CUGAGGGC U UACAUGGA	9611	UCCAUGUA CUGAUGAG	GCCGUUAGGC	CGAA ICCUCAG	27986
425	10605	GGGCUUAC A UGGAUCAC	9612	GUGAUCCA CUGAUGAG	GCCGUUAGGC	CGAA IUAGCCC	27987
432	10598	CAUGGAUC A CUUCGCGG	9613	CCGGAAG CUGAUGAG	GCCGUUAGGC	CGAA IAUCCAUG	27988
434	10596	UGGAUCAC U UCAGGCU	9614	AGCCGGA CUGAUGAG	GCCGUUAGGC	CGAA IUGAUCCA	27989
442	10588	UUCGCGGC U UUGUUCAC	9615	GUGAACA CUGAUGAG	GCCGUUAGGC	CGAA ICCGCGAA	27990
449	10581	CUUUGUUC A CCCAGUCC	9616	GGACUGG CUGAUGAG	GCCGUUAGGC	CGAA IAACAAAG	27991
451	10579	UUGUUCAC C CAGUCCUC	9617	GAGGACUG CUGAUGAG	GCCGUUAGGC	CGAA IUGAACAA	27992
452	10578	UGUUAACC C AGUCCUCC	9618	GGAGGACU CUGAUGAG	GCCGUUAGGC	CGAA IGUGAAC	27993
453	10577	GUUACACC A GUCCUCCU	9619	AGGAGGAC CUGAUGAG	GCCGUUAGGC	CGAA IGGUGAAC	27994
458	10572	CCAGUCC U CCUGGGGU	9620	ACCCAGG CUGAUGAG	GCCGUUAGGC	CGAA IGACUGGG	27995
460	10570	CAGUCCUC C UGGGUUG	9621	CAACCCCA CUGAUGAG	GCCGUUAGGC	CGAA IAGGACUG	27996
461	10569	AGUCCUCC U GGGGUUGA	9622	UCAACCC CUGAUGAG	GCCGUUAGGC	CGAA IGAGGACU	27997
475	10555	UGAGUCCG A GGCAGCAC	9623	GUGCUGCC CUGAUGAG	GCCGUUAGGC	CGAA ICACUCA	27998
479	10551	UCGAGGC A GCACCGUC	9624	GACGUGC CUGAUGAG	GCCGUUAGGC	CGAA ICCUGCGA	27999
482	10548	CAGGAGC A CCGUCUAC	9625	GUAGACG CUGAUGAG	GCCGUUAGGC	CGAA ICUGCCUG	28000
484	10546	GGCAGCAC C GUCUACUC	9626	GAGUAGAC CUGAUGAG	GCCGUUAGGC	CGAA IUGCUGCC	28001
488	10542	GCACCGUC U ACUCAACU	9627	AGUUGAGU CUGAUGAG	GCCGUUAGGC	CGAA IACGGUGC	28002
491	10539	CCGUUCUAC U CAACUCC	9628	GGAAGUUG CUGAUGAG	GCCGUUAGGC	CGAA IUAGACGG	28003

493	10537	GUCUACUC A ACUUCGG	9629	CCGGAAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGUAGAC	28004
496	10534	UACUCAAC U UCCGGUGG	9630	CCACCGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGAGUA	28005
499	10531	UCAACUUC C GGUGGCGG	9631	CCGCCACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAGUUGA	28006
512	10518	GCGGGAAC U UCCCGGCC	9632	GGCCGGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUCGGC	28007
515	10515	GGAACUUC C CGGCCUGA	9633	UCAGGCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAGUUC	28008
516	10514	GAACUUC C GGCCUGAC	9634	GUCAGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAAGUUC	28009
520	10510	UUCGGGC C UGACUUC	9635	GAAAGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCGGGA	28010
521	10509	UCCGGGC U GACUUCU	9636	AGAAAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCCGGA	28011
525	10505	GGCCUGAC U UUCUCCUC	9637	GAGGAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUCAGGCC	28012
529	10501	GCCUUC U CCUAAAA	9638	UUUGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAGUCA	28013
531	10499	ACUUCUC C UCAAAAU	9639	AAUUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAAAGU	28014
532	10498	CUUCUCC U CAAAUUU	9640	AAAUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAGAAAG	28015
534	10496	UUCUCCUC A AAUUUUC	9641	GAAAUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGGAGAA	28016
543	10487	AAAUUUUC U UAACUUA	9642	AAUAGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAAUUU	28017
548	10482	UUCUUAAC U AUUACAC	9643	GUGUAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUAGAA	28018
555	10475	CUAUUAC A CUAACAC	9644	GGUGUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAUUAG	28019
557	10473	AUUUACAC U AACACCAC	9645	GUGUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGAAAU	28020
561	10469	ACACUAC A CCACUAA	9646	UUUAGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUAGUU	28021
563	10467	ACUACAC C ACUAAUA	9647	UAUUUAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGUUAGU	28022
564	10466	CUAACAC A CUAAUAC	9648	GUAUUUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUGUUAG	28023
566	10464	AACACCAC U AAUACUA	9649	UAGUAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGUGUU	28024
573	10457	CUAAUAC U ACUAAUA	9650	UUUUAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAUUUAG	28025
576	10454	AAUACUAC U AUAAACU	9651	AGUUUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAGUUU	28026
584	10446	UAUAAAC U ACACUUU	9652	AAAAGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUUUUA	28027
587	10443	AAACUAC A CUUUUAG	9653	CAUAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAGUUU	28028
589	10441	AACUACAC U UUAUGCA	9654	UGCAUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGAGUU	28029
597	10433	UUUUAGC A UACUUAU	9655	UAUAAGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAUAAA	28030
601	10429	AUGCAUAC U UAUUUGU	9656	ACAAUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAUGCAU	28031
611	10419	AUAUUGUC U AUUACAA	9657	UUGUAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACAUUAU	28032
618	10412	CUAUUAC A AUUGAUUA	9658	UAUCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAAUAG	28033
633	10397	UAAUAUC U ACAGUACU	9659	AGUACUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUAUUUA	28034
636	10394	AUAUCUAC A GUACUGU	9660	CACAGUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAGUAU	28035
641	10389	UUAUAC U GUGUCCUC	9661	GAGGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUACUGUA	28036
647	10383	ACUGUGUC C UCAACCA	9662	UUGGUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACACAGU	28037
648	10382	CUGUGUCC U CAACCAA	9663	UUUGGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGACACAG	28038
650	10380	GUGUCCUC A ACCAAAGU	9664	ACUUUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGGACAC	28039
653	10377	UCCUCAAC C AAAGUUGU	9665	ACAACUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGAGGA	28040
654	10376	CCUCAACC A AAGUUGU	9666	CACAACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUUGAGG	28041
665	10365	GUUGUGUC U UCAUAUCU	9667	AGUAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACACAAC	28042
668	10362	GUGUCUUC A UAUUCUU	9668	AAGAGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACAGAC	28043
673	10357	UUAUAUC U CUUAGUG	9669	CACUAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUAUGAA	28044
675	10355	CAUAUCUC U UUAUGAA	9670	UUCACUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGUAUG	28045
685	10345	UAGUGAAC U CAUGUAU	9671	AUUACAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUCACUA	28046
687	10343	GUGAACUC A UGUAAUC	9672	GGAUACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGUUCAC	28047
695	10335	AUGUAUUC C ACAUACU	9673	AAGUAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUUAUACU	28048
696	10334	UGUAUUC A CAUACUUC	9674	GAAGUAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAUUACA	28049
698	10332	UAUCCAC A UACUUCUC	9675	GAGAAGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGAUUA	28050
702	10328	CCACUAC U UCUCUUC	9676	AGAUAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAUGUGG	28051
705	10325	CAUACUUC U CAUCUCCG	9677	CGGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAGUAUG	28052
707	10323	UACUUCUC A UCUCGUAU	9678	AUCGGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAAGUA	28053
710	10320	UUCUCAUC U CCGAUGAU	9679	AUCAUCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGAGAA	28054
712	10318	CUCAUCUC C GAUGAUUG	9680	CAUUAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAUAG	28055
722	10308	AUGAUUGC U CUGACUUG	9681	CAAGUCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAAUCAU	28056
724	10306	GAUUGCUC U GACUUGGU	9682	ACCAAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGCAUUC	28057
728	10302	GCUCUGAC U UGUUGAU	9683	AUCAACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUCAGAGC	28058
740	10290	UGUAUGC C ACCUGGAU	9684	AUCCAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUAUCAA	28059
741	10289	UGUAGCC A CCUGGAU	9685	CAUCCAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCUAUCA	28060
743	10287	AUAGCCAC C UGGAUGUU	9686	AACAUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGGCUAU	28061
744	10286	UAGCCACC U GGAUGUU	9687	AAACAUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUGGCUA	28062
755	10275	AUGUUUUC U GCCACGU	9688	ACGUGGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAAACAU	28063
758	10272	UUUUCUC C CACUGGC	9689	GCCACGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAGAAAA	28064

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759	10271	UUUCUGCC C ACGUGGCU	9690	AGCCACGU CUGAUGAG	GCCGUUAGGC	CGAA IGCAGAAA	28065
760	10270	UUCUGCCC A CGUGGCUC	9691	GAGCCACG CUGAUGAG	GCCGUUAGGC	CGAA IGGCAGAA	28066
767	10263	CACGUGGC U CGGGCUCU	9692	AGAGCCCG CUGAUGAG	GCCGUUAGGC	CGAA ICCACGUG	28067
773	10257	GCTCGGGC U CUUGUGCC	9693	GGCACAAG CUGAUGAG	GCCGUUAGGC	CGAA ICCCGAGC	28068
775	10255	UCGGGCUC U UGUGCCAA	9694	UUGGCACA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCCGA	28069
781	10249	UCUUGUGC C AAUCAGGC	9695	GCCUGAUU CUGAUGAG	GCCGUUAGGC	CGAA ICACAAGA	28070
782	10248	CUUGUGCC A AUCAGGCU	9696	AGCCUGAU CUGAUGAG	GCCGUUAGGC	CGAA IGCACAAG	28071
786	10244	UGCCAAUC A GGCUGCCA	9697	UGGCAGCC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGCA	28072
790	10240	AAUCAGGC U GCCACACC	9698	GGUGUGGC CUGAUGAG	GCCGUUAGGC	CGAA ICCUGAUU	28073
793	10237	CAGGCUGC C ACACCAGA	9699	UCUGUGGU CUGAUGAG	GCCGUUAGGC	CGAA IACGCCUG	28074
794	10236	AGGCUGCC A CACCAGAU	9700	AUCUGGUG CUGAUGAG	GCCGUUAGGC	CGAA IGCAGCCU	28075
796	10234	GCUGCCAC A CCAGAUGU	9701	ACAUCUGG CUGAUGAG	GCCGUUAGGC	CGAA IUGGCAGC	28076
798	10232	UGCCACAC C AGAUGUCC	9702	GGACAUCU CUGAUGAG	GCCGUUAGGC	CGAA IUGUGGCA	28077
799	10231	GCCACACC A GAUGUCCU	9703	AGGACAUC CUGAUGAG	GCCGUUAGGC	CGAA IGUGUGGC	28078
806	10224	CAGAUGUC C UCUCGUUU	9704	AAACGAGA CUGAUGAG	GCCGUUAGGC	CGAA IACAUCUG	28079
807	10223	AGAUGUCC U CUCGUUUU	9705	AAAACGAG CUGAUGAG	GCCGUUAGGC	CGAA IGACAUCU	28080
809	10221	AUGUCCUC U CGUUUUC	9706	GGAAAACG CUGAUGAG	GCCGUUAGGC	CGAA IAGGACAU	28081
817	10213	UCGUUUUC C UGAAUAUG	9707	CAUAUUCA CUGAUGAG	GCCGUUAGGC	CGAA IAAAACGA	28082
818	10212	CGUUUUC U GAAUAUGG	9708	CCAUAUUC CUGAUGAG	GCCGUUAGGC	CGAA IGAAAACG	28083
833	10197	GGGACGUC A CUCCAUUU	9709	AAAUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IACGUCCC	28084
835	10195	GACGUCAC U CCAUUUCU	9710	AGAAAUGG CUGAUGAG	GCCGUUAGGC	CGAA IUGACGUC	28085
837	10193	CGUCACUC C AUUUCUCC	9711	GGAGAAAU CUGAUGAG	GCCGUUAGGC	CGAA IAGUGACG	28086
838	10192	GUCACUCC A UUUCUCCA	9712	UGGAGAAA CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGAC	28087
843	10187	UCCAUTUC U CCACUGGG	9713	CCCAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IAAAUGGA	28088
845	10185	CAUUUCUC C ACUGGGGU	9714	ACCCACAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUUG	28089
846	10184	AUUUCUCC A CUGGGGUU	9715	AACCCACG CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAAU	28090
848	10182	UUUCCAC U GGGGUUUU	9716	AAAACCCC CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGAA	28091
860	10170	GUUUUGUC U UCCAUCCA	9717	UGGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IACAAAAC	28092
863	10167	UUGUCUUC C AUCCAUC	9718	GAAUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IAAGACAA	28093
864	10166	UGUCUUC A UCCAUCCA	9719	UGAAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGACA	28094
867	10163	CUCCAUC C AUUCAUUC	9720	GAAUGAAU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGAAG	28095
868	10162	UUCCAUC A UUCAUUCU	9721	AGAAUGAA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGAA	28096
872	10158	AUCCAUC A UUCUCCUC	9722	GAGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGAU	28097
876	10154	AUUAUUC U CCUCUAUC	9723	GAUAGAGG CUGAUGAG	GCCGUUAGGC	CGAA IAAUGAAU	28098
878	10152	UCAUUCUC C UCUAUCCA	9724	UGGAUAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUGA	28099
879	10151	CAUUCUCC U CUAUCCAA	9725	UUGGAUAG CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAUG	28100
881	10149	UUCUCCUC U AUCCAAC	9726	GUUUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGAA	28101
885	10145	CCUCUAUC C AAACACGG	9727	CCUGUUU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGAGG	28102
886	10144	CUCUAUCC A AACACGGU	9728	ACCGUGUU CUGAUGAG	GCCGUUAGGC	CGAA IGAUAGAG	28103
890	10140	AUCCAAAC A CGGUUCCA	9729	UGGAACCG CUGAUGAG	GCCGUUAGGC	CGAA IUUUGGAU	28104
897	10133	CACGGUUC C AGACCUCC	9730	GGAGGUCU CUGAUGAG	GCCGUUAGGC	CGAA IAAACGUG	28105
898	10132	ACGGUUC A GACCUCCA	9731	UGGAGGUC CUGAUGAG	GCCGUUAGGC	CGAA IGAACCGU	28106
902	10128	UCCAGAC C UCCAACAU	9732	AUGUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUCUGGAA	28107
903	10127	UCCAGACC U CCAACAUG	9733	CAUGUUGG CUGAUGAG	GCCGUUAGGC	CGAA IGUCUGGA	28108
905	10125	CAGACCUC C AACAUUGC	9734	GACAUGUU CUGAUGAG	GCCGUUAGGC	CGAA IAGGUCUG	28109
906	10124	AGACCUC A ACAUGUCC	9735	GGACAUGU CUGAUGAG	GCCGUUAGGC	CGAA IGAGGUCU	28110
909	10121	CCUCCAAC A UGUCCUCU	9736	AGAGGACA CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAGG	28111
914	10116	AACAUGUC C UCUGUUGU	9737	ACAACAGA CUGAUGAG	GCCGUUAGGC	CGAA IACAUGUU	28112
915	10115	ACAUGUCC U CUGUUGUC	9738	GACAACAG CUGAUGAG	GCCGUUAGGC	CGAA IGACAUGU	28113
917	10113	AUGUCCUC U GUUGUCAU	9739	AUGACAAC CUGAUGAG	GCCGUUAGGC	CGAA IAGGACAU	28114
924	10106	CUGUUGUC A UCCACUCU	9740	AGAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IACAACAG	28115
927	10103	UUGUCAUC C ACUCUCCU	9741	AGGAGAGU CUGAUGAG	GCCGUUAGGC	CGAA IAUGACAA	28116
928	10102	UGUCAUCC A CUCUCCUC	9742	GAGGAGAG CUGAUGAG	GCCGUUAGGC	CGAA IGAUGACA	28117
930	10100	UCAUCCAC U CUCCUCCU	9743	AGGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGGAUGA	28118
932	10098	AUCCACUC U CCUCCUGC	9744	GCAGGAGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUGGAU	28119
934	10096	CCACUC C UCCGCAU	9745	AUGCAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUGG	28120
935	10095	CACUCUC U CCUGCAUG	9746	CAUGCAGG CUGAUGAG	GCCGUUAGGC	CGAA IGAGAGUG	28121
937	10093	CUCUCCUC C UGCAUGGA	9747	UCCAUGCA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGAG	28122
938	10092	UCUCCUCC U GCAUGGAU	9748	AUCCAUGC CUGAUGAG	GCCGUUAGGC	CGAA IGAGGAGA	28123
941	10089	CCUCCUGC A UGGAUGGA	9749	UCCAUCCA CUGAUGAG	GCCGUUAGGC	CGAA ICAGGAGG	28124
951	10079	GGAUGGAC C ACGUGGUU	9750	AACCACGU CUGAUGAG	GCCGUUAGGC	CGAA IUCCAUC	28125

952	10078	GAUGGACC A CGUGGUUC	9751	GAACCACG CUGAUGAG	GCCGUUAGGC	CGAA	IGUCCAUC	28126
961	10069	CGUGGUUC U UCCGGUAG	9752	CUACCGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAACCACG	28127
964	10066	GGUUCUUC C GGUAGGGA	9753	UCCCUACC CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAACC	28128
974	10056	GUAGGGAC C CAAUUCAC	9754	GUGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA	IUCCCUAC	28129
975	10055	UAGGGACC C AAUUCACA	9755	UGUGAAU CUGAUGAG	GCCGUUAGGC	CGAA	IGUCCCUA	28130
976	10054	AGGGACCC A AUUCACAG	9756	CUGUGAAU CUGAUGAG	GCCGUUAGGC	CGAA	IGGUCCCU	28131
981	10049	CCCAAUUC A CAGGGACA	9757	UGUCCUG CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUGGG	28132
983	10047	CAAUUCAC A GGGACAGC	9758	GCUGUCCC CUGAUGAG	GCCGUUAGGC	CGAA	IUGAAUUG	28133
989	10041	ACAGGGAC A GCGGAGCA	9759	UGCUCGCG CUGAUGAG	GCCGUUAGGC	CGAA	IUCCCUUG	28134
997	10033	AGCGGAGC A AAUGGCGU	9760	ACGCCAUU CUGAUGAG	GCCGUUAGGC	CGAA	ICUCCGCU	28135
1010	10020	GCGUUGGC C AUGAGCCG	9761	CGGCUCAU CUGAUGAG	GCCGUUAGGC	CGAA	ICCAACGC	28136
1011	10019	CGUUGGCC A UGAGCCGC	9762	GCGGCUCA CUGAUGAG	GCCGUUAGGC	CGAA	IGCCAACG	28137
1017	10013	CCAUGAGC C GCAGGUCU	9763	AGACCUGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUCAUGG	28138
1020	10010	UGAGCCGC A GGUCUCUU	9764	AAGAGACC CUGAUGAG	GCCGUUAGGC	CGAA	ICGGCUCA	28139
1025	10005	CGCAGGUC U CUUCUGUG	9765	CACAGAAG CUGAUGAG	GCCGUUAGGC	CGAA	IACCUGCG	28140
1027	10003	CAGGUCUC U UCUGUGGA	9766	UCCACAGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGACCUG	28141
1030	10000	GUCUCUUC U GUGGAAGU	9767	ACUUCCAC CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAGAC	28142
1041	9989	GGAGUAC A GAAGCAGC	9768	GCUGCUUC CUGAUGAG	GCCGUUAGGC	CGAA	IUACUCC	28143
1047	9983	ACAGAAGC A GCCACAUC	9769	GAUGUGGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUUCUGU	28144
1050	9980	GAAGCAGC C ACAUCUGG	9770	CCAGAUGU CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCUUC	28145
1051	9979	AAGCAGCC A CAUCUGGG	9771	CCCAGAUG CUGAUGAG	GCCGUUAGGC	CGAA	IGCUGCUU	28146
1053	9977	GCAGCCAC A UCUGGGCA	9772	UGCCCAAG CUGAUGAG	GCCGUUAGGC	CGAA	IUGGUGGC	28147
1056	9974	GCCACAUC U GGGCAUAA	9773	UUAUGCCC CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUGGC	28148
1061	9969	AUCUGGGC A UAAGACUU	9774	AAGUCUUA CUGAUGAG	GCCGUUAGGC	CGAA	ICCCAGAU	28149
1068	9962	CAUAAGAC U UAGCCAGA	9775	UCUGGCUA CUGAUGAG	GCCGUUAGGC	CGAA	IUCUUAUG	28150
1073	9957	GACUAGC C AGACAAGC	9776	GCUUGUCU CUGAUGAG	GCCGUUAGGC	CGAA	ICUAAGUC	28151
1074	9956	ACUUAAGC A GACAAGCA	9777	UGCUGUC CUGAUGAG	GCCGUUAGGC	CGAA	IGCUAAGU	28152
1078	9952	AGCCAGAC A AGCAGUGU	9778	ACACUGCU CUGAUGAG	GCCGUUAGGC	CGAA	IUCUGGCU	28153
1082	9948	AGACAAGC A GUGUCGCG	9779	CGCGACAC CUGAUGAG	GCCGUUAGGC	CGAA	ICUUGUCU	28154
1098	9932	GGACGUUC C AUCCGGCC	9780	GGCCGGAU CUGAUGAG	GCCGUUAGGC	CGAA	IAACGUCC	28155
1099	9931	GACGUUCC A UCCGGCCC	9781	GGGCCGGA CUGAUGAG	GCCGUUAGGC	CGAA	IGAACGUC	28156
1102	9928	GUUCCAUC C GGCCCTUG	9782	CAGGGGCG CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGAAC	28157
1106	9924	CAUCGCG C CCUGGAGA	9783	UCUCCAGG CUGAUGAG	GCCGUUAGGC	CGAA	ICCGAUG	28158
1107	9923	AUCCGGCC C CUGGAGAU	9784	AUCUCCAG CUGAUGAG	GCCGUUAGGC	CGAA	IGCCGGAU	28159
1108	9922	UCCGGCCC C UGGAGAU	9785	UAUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCGGA	28160
1109	9921	CCGGCCCC U GGAGAU	9786	AUAUCUCC CUGAUGAG	GCCGUUAGGC	CGAA	IGGGCCGG	28161
1124	9906	AUGCGAGC U CUGCCUAC	9787	GUAGGCAG CUGAUGAG	GCCGUUAGGC	CGAA	ICUCGAU	28162
1126	9904	GCGAGCUC U GCCUACCA	9788	UGGUAGGC CUGAUGAG	GCCGUUAGGC	CGAA	IAGCUCGC	28163
1129	9901	AGCUCUGC C UACCAAUU	9789	AAUUGGUA CUGAUGAG	GCCGUUAGGC	CGAA	ICAGAGCU	28164
1130	9900	GCUCUGCC U ACCAAUUC	9790	GAAUUGGU CUGAUGAG	GCCGUUAGGC	CGAA	IGCAGAGC	28165
1133	9897	CUCUCUAC C AAUUCAU	9791	GAUGAAU CUGAUGAG	GCCGUUAGGC	CGAA	IUAGGCAG	28166
1134	9896	UGCCUACC A AUUCAUCC	9792	GGAAUGAU CUGAUGAG	GCCGUUAGGC	CGAA	IGUAGGCA	28167
1139	9891	ACCAAUUC A UCCUGUCC	9793	GGACAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUGGU	28168
1142	9888	AAUUCAU C UGUCCUCG	9794	CGAGGACA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGAAU	28169
1143	9887	AUUCAUCC U GUCCUCGG	9795	CCGAGGAC CUGAUGAG	GCCGUUAGGC	CGAA	IGAUGAAU	28170
1147	9883	AUCCUGUC C UCGGCAUG	9796	CAUGCCGA CUGAUGAG	GCCGUUAGGC	CGAA	IACAGGAU	28171
1148	9882	UCCUGUCC U CGGCAUGG	9797	CCAUGCCG CUGAUGAG	GCCGUUAGGC	CGAA	IGACAGGA	28172
1153	9877	UCCUCGCG A UGGAACCA	9798	UGGUUCCA CUGAUGAG	GCCGUUAGGC	CGAA	ICCGAGGA	28173
1160	9870	CAUGGAAC C ACCAGUGU	9799	ACACUGGU CUGAUGAG	GCCGUUAGGC	CGAA	IUCCAU	28174
1161	9869	AUGGAACC A CCAGUGU	9800	AACACUGG CUGAUGAG	GCCGUUAGGC	CGAA	IGUCCA	28175
1163	9867	GGAACCAC C AGUGUUCU	9801	AGAACACU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGUUCC	28176
1164	9866	GAACCACC A GUGUUCUU	9802	AAGAACAC CUGAUGAG	GCCGUUAGGC	CGAA	IGUGGUUC	28177
1171	9859	CAGUGUUC U UCCAUCUU	9803	AAGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAACACUG	28178
1174	9856	UGUUCUUC C AUCUUUCA	9804	UGAAAGAU CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAACA	28179
1175	9855	GUUCUUC C UCUUUCAU	9805	AUGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGAAC	28180
1178	9852	CUUCCAUC U UUCAUGAU	9806	AUCAUGAA CUGAUGAG	GCCGUUAGGC	CGAA	IUAUGAAG	28181
1182	9848	CAUCUUC A UGAUCAU	9807	AUUGAUCA CUGAUGAG	GCCGUUAGGC	CGAA	IAAUGAUG	28182
1188	9842	UCAUGAUC A AUUCAGUG	9808	CACUGAAU CUGAUGAG	GCCGUUAGGC	CGAA	IAUCAUGA	28183
1193	9837	AUCAAUUC A GUGAAUG	9809	CAUUCAC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUGAU	28184
1210	9820	GUUGAGC A AAUGGAA	9810	UUCCAUU CUGAUGAG	GCCGUUAGGC	CGAA	ICUCAAAC	28185
1220	9810	AAUGGAAC C UGCUGCCA	9811	UGGCAGCA CUGAUGAG	GCCGUUAGGC	CGAA	IUCCA	28186

1221	9809	AUGGAACC U GCUGCCAA	9812	UUGGCAGC CUGAUGAG	GCCGUUAGGC	CGAA	IGUUGCAU	28187
1224	9806	GAACCUGC U GCCAAUCA	9813	UGAUUGGC CUGAUGAG	GCCGUUAGGC	CGAA	ICAGGUUC	28188
1227	9803	CCUGCUGC C AAUCAUAC	9814	GUAUGAUU CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCAGG	28189
1228	9802	CUGCUGCC A AUCAUACC	9815	GGUAUGAU CUGAUGAG	GCCGUUAGGC	CGAA	IGCAGCAG	28190
1232	9798	UGCCAAUC A UACCAUCC	9816	GGAUGGUA CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGGCA	28191
1236	9794	AAUCAUAC C AUCCAGUU	9817	AACUGGAU CUGAUGAG	GCCGUUAGGC	CGAA	IUAUGAUU	28192
1237	9793	AUCAUACC A UCCAGUUG	9818	CAACUGGA CUGAUGAG	GCCGUUAGGC	CGAA	IGUAUGAU	28193
1240	9790	AUACCAUC C AGUUGACG	9819	CGUCAACU CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGUUU	28194
1241	9789	UACCAUCC A GUUGACGG	9820	CCGUCAAC CUGAUGAG	GCCGUUAGGC	CGAA	IGAUGGUA	28195
1254	9776	ACGGUUUC C ACUCUUGG	9821	CCAAGAGU CUGAUGAG	GCCGUUAGGC	CGAA	IAAACCGU	28196
1255	9775	CGGUUUCC A CUCUUGGA	9822	UCCAAGAG CUGAUGAG	GCCGUUAGGC	CGAA	IGAAACCG	28197
1257	9773	GUUCCAC U CUUGGAUG	9823	CAUCCAAG CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAAAC	28198
1259	9771	UUCCACUC U UGGAUGUC	9824	GACAUCCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGGAA	28199
1268	9762	UGGAUGUC U UUGCGAAC	9825	GUUCGCAA CUGAUGAG	GCCGUUAGGC	CGAA	IACAUCCA	28200
1277	9753	UUGCGAAC C UUUGACAU	9826	AUGUCAAA CUGAUGAG	GCCGUUAGGC	CGAA	IUUCGCAA	28201
1278	9752	UGCGAACC U UUGACAUU	9827	UAUGUCAA CUGAUGAG	GCCGUUAGGC	CGAA	IGUUCGCA	28202
1284	9746	CCUUUGAC A UAGCAUUG	9828	CAAUGCUA CUGAUGAG	GCCGUUAGGC	CGAA	IUCAAAGG	28203
1289	9741	GACAUAGC A UUGAGGAA	9829	UUCUCUAA CUGAUGAG	GCCGUUAGGC	CGAA	ICUAUGUC	28204
1313	9717	GAGGUGGC A AAGCGAUC	9830	GAUCGCUU CUGAUGAG	GCCGUUAGGC	CGAA	ICACCUC	28205
1325	9705	CGAUCGUC C AGGGGCUU	9831	AAGCCCUU CUGAUGAG	GCCGUUAGGC	CGAA	IACGAUCG	28206
1326	9704	GAUCGUCC A GGGGCUUU	9832	AAAGCCCU CUGAUGAG	GCCGUUAGGC	CGAA	IGACGAUC	28207
1332	9698	CCAGGGGC U UUACCACA	9833	UGUGGUAA CUGAUGAG	GCCGUUAGGC	CGAA	ICCCUGG	28208
1337	9693	GGCUUAC C ACACAGUC	9834	GACUGUGU CUGAUGAG	GCCGUUAGGC	CGAA	IUAAGGCC	28209
1338	9692	GCUUUACC A CACAGUCA	9835	UGACUGUG CUGAUGAG	GCCGUUAGGC	CGAA	IGUAAAGC	28210
1340	9690	UUUACCAC A CAGUCAUC	9836	GAUGACUG CUGAUGAG	GCCGUUAGGC	CGAA	IUGGUAAA	28211
1342	9688	UACCACAC A GUCAUCUC	9837	GAGAUGAC CUGAUGAG	GCCGUUAGGC	CGAA	IUGUGGUA	28212
1346	9684	ACACAGUC A UCUCACU	9838	AGUGGAGA CUGAUGAG	GCCGUUAGGC	CGAA	IACUGUGU	28213
1349	9681	CAGUCAUC U CCACUGAC	9839	GUCAGUGG CUGAUGAG	GCCGUUAGGC	CGAA	IAUGACUG	28214
1351	9679	GUCAUCUC C ACUGACAG	9840	CUGUCAGU CUGAUGAG	GCCGUUAGGC	CGAA	IAGAUGAC	28215
1352	9678	UCAUCUCC A CUGACAGC	9841	GCUGUCAG CUGAUGAG	GCCGUUAGGC	CGAA	IGAGAUGA	28216
1354	9676	AUCUCCAC U GACAGCCA	9842	UGGCUGUC CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAGAU	28217
1358	9672	CCACUGAC A GCCAUGCG	9843	CGCAUGGC CUGAUGAG	GCCGUUAGGC	CGAA	IUCAGUGG	28218
1361	9669	CUGACAGC A AUGCGGCU	9844	AGCCGCAU CUGAUGAG	GCCGUUAGGC	CGAA	ICUGUCAG	28219
1362	9668	UGACAGCC A UGCGGUG	9845	CAGCCGCA CUGAUGAG	GCCGUUAGGC	CGAA	IGCGUCA	28220
1369	9661	CAUGCGGC U GAGUCUUU	9846	AAAGACUC CUGAUGAG	GCCGUUAGGC	CGAA	ICGCAUG	28221
1375	9655	GCUGAGUC U UUCUCCCC	9847	GGGAAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IACUCAGC	28222
1379	9651	AGUCUUUC U UCCCAU	9848	AAUGGGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGACU	28223
1382	9648	CUUUCUUC C CCAUUCUC	9849	GAGAAUGG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAAAG	28224
1383	9647	UUUCUUC C CAUUCUCA	9850	UGAGAAUG CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGAAA	28225
1384	9646	UUUCUCCC C AUUCUCAA	9851	UUGAGAAU CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAGAA	28226
1385	9645	UCUUCCCC A UUCUCAA	9852	UUUGAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IGGGAAGA	28227
1389	9641	CCCCAUUC U CAAACAGC	9853	GCUGUUUG CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGGGG	28228
1391	9639	CCAUCUC A AACAGCCA	9854	UGGCUGUU CUGAUGAG	GCCGUUAGGC	CGAA	IGAAUUGG	28229
1395	9635	UCUCAAC A GCCAGGUC	9855	GACCUGGC CUGAUGAG	GCCGUUAGGC	CGAA	IUUUGAGA	28230
1398	9632	CAAACAGC C AGGUCCUG	9856	CAGGACCU CUGAUGAG	GCCGUUAGGC	CGAA	ICUGUUUG	28231
1399	9631	AAACAGCC A GGUCUGA	9857	UCAGGACC CUGAUGAG	GCCGUUAGGC	CGAA	IGCUGUUU	28232
1404	9626	GCCAGGUC C UGACUUUG	9858	CAAAGUCA CUGAUGAG	GCCGUUAGGC	CGAA	IACCUGGC	28233
1405	9625	CCAGGUCC U GACUUUGG	9859	CCAAAGUC CUGAUGAG	GCCGUUAGGC	CGAA	IGACCUGG	28234
1409	9621	GUCCUGAC U UUGGUCC	9860	GGACCCAA CUGAUGAG	GCCGUUAGGC	CGAA	IUCAGGAC	28235
1417	9613	UUUGGGUC C UUUCUUU	9861	AAGGGAAA CUGAUGAG	GCCGUUAGGC	CGAA	IACCCAAA	28236
1418	9612	UUGGGUCC U UUCCUUU	9862	AAAGGGAA CUGAUGAG	GCCGUUAGGC	CGAA	IGACCCAA	28237
1422	9608	GUCCUUUC C CUUUUGUG	9863	CACAAAAG CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGGAC	28238
1423	9607	UCCUUUCC C UUUUGUGA	9864	UCACAAA CUGAUGAG	GCCGUUAGGC	CGAA	IGAAAGGA	28239
1424	9606	CCUUUCCC U UUUGUGAG	9865	CUCACAAA CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAAGG	28240
1437	9593	UGAGUUUC U CCACAUCA	9866	UGAUGUGG CUGAUGAG	GCCGUUAGGC	CGAA	IAAACUCA	28241
1439	9591	AGUUUCUC C ACAUCAUC	9867	GAUGAUGU CUGAUGAG	GCCGUUAGGC	CGAA	IGAGAAAC	28242
1440	9590	GUUUUCC A CAUCAUCU	9868	AGAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAGAA	28243
1442	9588	UUCUCCAC A UCAUCUGG	9869	CCAGAUGA CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAGAA	28244
1445	9585	UCCACAUC A UCUGGGCC	9870	GGCCCAGA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUGGA	28245
1448	9582	ACAUCAUC U GGGCCAAU	9871	AUUGGCCC CUGAUGAG	GCCGUUAGGC	CGAA	IAUGAUGU	28246
1453	9577	AUCUGGGC C AAUCACUC	9872	GAGUGAUU CUGAUGAG	GCCGUUAGGC	CGAA	ICCCAGAU	28247

Table IX

1454	9576	UCUGGGCC A AUCACUCC	9873	GGAGUGAU CUGAUGAG	GCCGUUAGGC	CGAA	IGCCCAGA	28248
1458	9572	GGCCAAUC A CUCCUCC	9874	GGAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGGCC	28249
1460	9570	CCAAUCAC U CCUCCCC	9875	GGGGAAGG CUGAUGAG	GCCGUUAGGC	CGAA	IUGAUUGG	28250
1462	9568	AAUCACUC C UCCCCUU	9876	AAGGGGAA CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGAUU	28251
1463	9567	AUCACUCC U UCCCCUUC	9877	GAAGGGGA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGUGAU	28252
1466	9564	ACUCCUUC C CCUCCAU	9878	AUGGAAGG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGAGU	28253
1467	9563	CUCCUCC C CUUCCAUC	9879	GAUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGGAG	28254
1468	9562	UCCUCCCC C UUCCAUCA	9880	UGAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAGGA	28255
1469	9561	CCUCCCC U UCCAUCAU	9881	AUGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA	IGGGAAGG	28256
1472	9558	UCCCCUUC C AUCAUCCU	9882	AGGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGGGA	28257
1473	9557	CCCCUCC A UCAUCCUC	9883	GAGGAUGA CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGGGG	28258
1476	9554	CUUCCAUC A UCCUACC	9884	GGUGAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGAAG	28259
1479	9551	CAUCAUCC C UCACCAGC	9885	GCUGGUGA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGAUGG	28260
1480	9550	CAUCAUCC U CACCAGCU	9886	AGCUGGUG CUGAUGAG	GCCGUUAGGC	CGAA	IGAUGAUG	28261
1482	9548	UCAUCCUC A CCAGCUGG	9887	CCAGCUGG CUGAUGAG	GCCGUUAGGC	CGAA	IAGGAUGA	28262
1484	9546	AUCCUCAC C AGCUGGAC	9888	GUCCAGCU CUGAUGAG	GCCGUUAGGC	CGAA	IUGAGGAU	28263
1485	9545	UCCUCACC A GCUGGACG	9889	CGUCCAGC CUGAUGAG	GCCGUUAGGC	CGAA	IGUGAGGA	28264
1488	9542	UCACCAGC U GGACGGCC	9890	GGCCGUCC CUGAUGAG	GCCGUUAGGC	CGAA	ICUGGUGA	28265
1496	9534	UGGACGGC C AGGUUGGU	9891	ACCAACCU CUGAUGAG	GCCGUUAGGC	CGAA	ICCGUCCA	28266
1497	9533	GGACGGCC A GGUUGGUG	9892	CACCAACC CUGAUGAG	GCCGUUAGGC	CGAA	IGCCGUCC	28267
1529	9501	UAGGUGAC A ACUUGUCC	9893	GGACAAGU CUGAUGAG	GCCGUUAGGC	CGAA	IUCACCUA	28268
1532	9498	GUGACAAC U UGUCCACU	9894	AGUGGACA CUGAUGAG	GCCGUUAGGC	CGAA	IUUGUCAC	28269
1537	9493	AACUUGUC C ACUCCCC	9895	GGGGGAGU CUGAUGAG	GCCGUUAGGC	CGAA	IACAAGUU	28270
1538	9492	ACUUGUCC A CUCCCCU	9896	AGGGGGAG CUGAUGAG	GCCGUUAGGC	CGAA	IGACAAGU	28271
1540	9490	UUGUCCAC U CCCCCUCU	9897	AGAGGGGG CUGAUGAG	GCCGUUAGGC	CGAA	IUGGACAA	28272
1542	9488	GUCCACUC C CCUCUGA	9898	UCAGAGGG CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGGAC	28273
1543	9487	UCCACUCC C CCUCUGAU	9899	AUCAGAGG CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGGGA	28274
1544	9486	CCACUCCC C CUCUGAUC	9900	GAUCAGAG CUGAUGAG	GCCGUUAGGC	CGAA	IGGAGUGG	28275
1545	9485	CACUCCCC C UCUGAUCU	9901	AGAUCAGA CUGAUGAG	GCCGUUAGGC	CGAA	IGGGAGUG	28276
1546	9484	ACUCCCCC U CUGAUCUU	9902	AAGAUCAG CUGAUGAG	GCCGUUAGGC	CGAA	IGGGGAGU	28277
1548	9482	UCCCCCUC U GAUCUUCU	9903	AGAAGAUC CUGAUGAG	GCCGUUAGGC	CGAA	IAGGGGGA	28278
1553	9477	CUCUGAUC U UCUCUGGA	9904	UCCAGAGA CUGAUGAG	GCCGUUAGGC	CGAA	IAUCAGAG	28279
1556	9474	UGAUCUUC U CUGGAGAU	9905	AUCUCCAG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAUCA	28280
1558	9472	AUCUUCUC U GGAGAUAA	9906	UUAUCUCC CUGAUGAG	GCCGUUAGGC	CGAA	IUAAGAU	28281
1568	9462	GAGAUAAC A UCCAUGAC	9907	GUCAUGGA CUGAUGAG	GCCGUUAGGC	CGAA	IUUAUCUC	28282
1571	9459	AUAACAUC C AUGACGGU	9908	ACCGUCAU CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUUAU	28283
1572	9458	UAACAUC C AUGACGGU	9909	AACCGUCA CUGAUGAG	GCCGUUAGGC	CGAA	IGAUGUUA	28284
1582	9448	GACGGUUC U UCCAUCAG	9910	CUGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAACCGUC	28285
1585	9445	GGUUCUUC C AUCAGCAG	9911	CUGCUGAU CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAACC	28286
1586	9444	GUUCUUC C UCAGCAGC	9912	GCUGCUGA CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGAAC	28287
1589	9441	CUUCCAUC A GCAGCCGG	9913	CCGGCUGC CUGAUGAG	GCCGUUAGGC	CGAA	IUGGGAAG	28288
1592	9438	CAUACAGC A GCCGGCG	9914	CGCCCGGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUGUGG	28289
1595	9435	UCAGCAGC C GGGCGCAU	9915	AUGCGCCC CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCUGA	28290
1602	9428	CCGGGCGC A UCACUUC	9916	GAAAGUGA CUGAUGAG	GCCGUUAGGC	CGAA	ICGCCCG	28291
1605	9425	GGCGCAUC A CUUCCACA	9917	UGUGAAAG CUGAUGAG	GCCGUUAGGC	CGAA	IAUGCGCC	28292
1607	9423	CGCAUCAC U UUCACAAC	9918	GUUGUGAA CUGAUGAG	GCCGUUAGGC	CGAA	IUGAUGCG	28293
1611	9419	UCACUUC A CAACUUG	9919	CAAAGUUG CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGUGA	28294
1613	9417	ACUUCAC A ACUUGUG	9920	CACAAAGU CUGAUGAG	GCCGUUAGGC	CGAA	IUGAAAGU	28295
1616	9414	UUCACAAC U UUGUGACG	9921	CGUCACAA CUGAUGAG	GCCGUUAGGC	CGAA	IUUGUGAA	28296
1635	9395	AGGUGAGC U CAAUGAUG	9922	CAUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA	ICUCACCU	28297
1637	9393	GUGAGCUC A AUGAUGGC	9923	GCCAUCAU CUGAUGAG	GCCGUUAGGC	CGAA	IAGCUCAC	28298
1646	9384	AUGAUGGC C CUGGCAAG	9924	CUUGCCAG CUGAUGAG	GCCGUUAGGC	CGAA	ICCAUCAU	28299
1647	9383	UGAUGGCC C UGGCAAGA	9925	UCUUGCCA CUGAUGAG	GCCGUUAGGC	CGAA	IGCCAUCA	28300
1648	9382	GAUGGCCC U GGCAAGAC	9926	GUCUUGCC CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCAUC	28301
1652	9378	GCCCUGGC A AGACGCCG	9927	CGGCGUCU CUGAUGAG	GCCGUUAGGC	CGAA	ICCAGGCC	28302
1659	9371	CAAGACGC C GAUGUCC	9928	GGAACAUC CUGAUGAG	GCCGUUAGGC	CGAA	ICGUCUUG	28303
1667	9363	CGAUGUUC C CCAUCAAG	9929	CUUGAUGG CUGAUGAG	GCCGUUAGGC	CGAA	IAACAUCG	28304
1668	9362	GAUGUCC C CAUCAAGC	9930	GCUUGAUG CUGAUGAG	GCCGUUAGGC	CGAA	IGAACAUC	28305
1669	9361	AUGUCCCC C AUCAAGCA	9931	UGCUGAU CUGAUGAG	GCCGUUAGGC	CGAA	IGGAACAU	28306
1670	9360	UGUCCCC A UCAAGCAG	9932	CUGCTUGA CUGAUGAG	GCCGUUAGGC	CGAA	IGGGAACA	28307
1673	9357	UCCCAUC A AGCAGCUC	9933	GAGCUGCU CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGGGA	28308

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1677	9353	CAUCAAGC A GCUCAAGC	9934	GCUGAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUUGAUG	28309
1680	9350	CAAGCAGC U CAAGCACC	9935	GGUGCUUG CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCUUG	28310
1682	9348	AGCAGCUC A AGCACCUC	9936	AAGGUGCU CUGAUGAG	GCCGUUAGGC	CGAA	IAGCUGCU	28311
1686	9344	GCUCAAGC A CCUAAGCU	9937	AGCUAAGG CUGAUGAG	GCCGUUAGGC	CGAA	ICUUGAGC	28312
1688	9342	UCAAGCAC C UUAGCUC	9938	GAAGCUAA CUGAUGAG	GCCGUUAGGC	CGAA	IUGCUUGA	28313
1689	9341	CAAGCACC U UAGCUUCA	9939	UGAAGCUA CUGAUGAG	GCCGUUAGGC	CGAA	IGUGCUUG	28314
1694	9336	ACCUUAGC U UCAUUUUC	9940	GAAAUAUGA CUGAUGAG	GCCGUUAGGC	CGAA	ICUAAGGU	28315
1697	9333	UUAGCUC A UUUUCCAA	9941	UUGGAAAA CUGAUGAG	GCCGUUAGGC	CGAA	IAAGCUAA	28316
1703	9327	UCAUUUUC C AAGUCAGC	9942	GCUGACUU CUGAUGAG	GCCGUUAGGC	CGAA	IAAAAUGA	28317
1704	9326	CAUUUUCC A AGUCAGCU	9943	AGCUGACU CUGAUGAG	GCCGUUAGGC	CGAA	IGAAAAUG	28318
1709	9321	UCCAAGUC A GCUCUCGU	9944	ACGAGAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUGGUGA	28319
1712	9318	AAGUCAGC U CUCGUGAU	9945	AUCACGAG CUGAUGAG	GCCGUUAGGC	CGAA	IACUGACU	28320
1714	9316	GUAGCUC U CGUGAUGC	9946	GCAUCACG CUGAUGAG	GCCGUUAGGC	CGAA	IAGCUGAC	28321
1730	9300	CGGGUGUC C CAGCCAGC	9947	GCUGGCUG CUGAUGAG	GCCGUUAGGC	CGAA	IACACCCG	28322
1731	9299	GGGUGUCC C AGCCAGCU	9948	AGCUGGCU CUGAUGAG	GCCGUUAGGC	CGAA	IGACACCC	28323
1732	9298	GGUGUCCC A GCCAGCUG	9949	CAGCUGGC CUGAUGAG	GCCGUUAGGC	CGAA	IGGACACC	28324
1735	9295	GUCCCAGC C AGCUGUGU	9950	ACACAGCU CUGAUGAG	GCCGUUAGGC	CGAA	ICUGGGAC	28325
1736	9294	UCCCAGCC A GCUGUGUC	9951	GACACAGC CUGAUGAG	GCCGUUAGGC	CGAA	IGCUGGGA	28326
1739	9291	CAGCCAGC U GUGUCAUC	9952	GAUGACAC CUGAUGAG	GCCGUUAGGC	CGAA	ICUGGCUG	28327
1745	9285	CGUGUGUC A UCAGCAUA	9953	UAUGCUGA CUGAUGAG	GCCGUUAGGC	CGAA	IACACAGC	28328
1748	9282	GUGUCAUC A GCAUAGAU	9954	AUCUAUGC CUGAUGAG	GCCGUUAGGC	CGAA	IAUGACAC	28329
1751	9279	UCAUCAGC A UAGAUCUU	9955	AAGAUCUA CUGAUGAG	GCCGUUAGGC	CGAA	ICUGAUGA	28330
1758	9272	CAUAGAUC U UGCCCCCA	9956	UGGGGGCA CUGAUGAG	GCCGUUAGGC	CGAA	IAUCUAUG	28331
1762	9268	GAUCUUGC C CCCAGGCC	9957	GGCCUGGG CUGAUGAG	GCCGUUAGGC	CGAA	ICAAGAUC	28332
1763	9267	AUCUUGCC C CCAGGCCG	9958	CGGCCUGG CUGAUGAG	GCCGUUAGGC	CGAA	IGCAAGAU	28333
1764	9266	UCUUGCCC C CAGGCCGG	9959	CCGGCCUG CUGAUGAG	GCCGUUAGGC	CGAA	IGGCAAGA	28334
1765	9265	CUGCCCC C AGGCCGGG	9960	CCCGGCCU CUGAUGAG	GCCGUUAGGC	CGAA	IGGGCAAG	28335
1766	9264	UUGCCCC A GGCCGGGU	9961	ACCCGCC CUGAUGAG	GCCGUUAGGC	CGAA	IGGGGCAA	28336
1770	9260	CCCCAGGC C GGGUGCCA	9962	UGGCACCC CUGAUGAG	GCCGUUAGGC	CGAA	ICCUGGGG	28337
1777	9253	CCGGGUGC C AACUUCAC	9963	GUGAAGUU CUGAUGAG	GCCGUUAGGC	CGAA	ICACCCGG	28338
1778	9252	CGGGUGCC A ACUUCACG	9964	CGUGAAGU CUGAUGAG	GCCGUUAGGC	CGAA	IGCACCCG	28339
1781	9249	GUGCCAAC U UCACGCAG	9965	CUGCGUGA CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGCAC	28340
1784	9246	CCAACUUC A CGCAGGAU	9966	AUCCUGCG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGUUGG	28341
1788	9242	CUUCACGC A GGAUGUAA	9967	UUACAUC CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUAAG	28342
1798	9232	GAGUAAAC C CAGUUUUU	9968	AAAAACUG CUGAUGAG	GCCGUUAGGC	CGAA	IUUAACAUC	28343
1799	9231	AUGUAAAC C AGUUUUUG	9969	CAAAAACU CUGAUGAG	GCCGUUAGGC	CGAA	IGUUACAUC	28344
1800	9230	UGUAAACC A GUUUUUGG	9970	CCAAAAC CUGAUGAG	GCCGUUAGGC	CGAA	IGGUUACA	28345
1813	9217	UUGGAGGC C CAAGCCCU	9971	AGGGCUUG CUGAUGAG	GCCGUUAGGC	CGAA	ICCUCCAA	28346
1814	9216	UGGAGGCC C AAGCCUC	9972	GAGGGCUU CUGAUGAG	GCCGUUAGGC	CGAA	IGCCUCCA	28347
1815	9215	GGAGGCC A AGCCUCG	9973	CGAGGGCU CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCUCC	28348
1819	9211	GCCCAAGC C CUCGACAC	9974	GUGUCGAG CUGAUGAG	GCCGUUAGGC	CGAA	ICUUGGGC	28349
1820	9210	CCCAAGCC C UCGACACC	9975	GGUGUCGA CUGAUGAG	GCCGUUAGGC	CGAA	IGCUUGGG	28350
1821	9209	CCAAGCCC U CGACACCU	9976	AGGUGUCG CUGAUGAG	GCCGUUAGGC	CGAA	IGGCUUGG	28351
1826	9204	CCUCGAC A CCUCCUCC	9977	GGAGGAGG CUGAUGAG	GCCGUUAGGC	CGAA	IUCGAGGG	28352
1828	9202	CUCGACAC C UCCUCCUG	9978	CAGGAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IUGUCGAG	28353
1829	9201	UCGACACC U CCUCCUGA	9979	UCAGGAGG CUGAUGAG	GCCGUUAGGC	CGAA	IGUGUCGA	28354
1831	9199	GACACCUC C UCCUGAGU	9980	ACUCAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGUGUC	28355
1832	9198	ACACCUC C UCCUGAGU	9981	AACUCAGG CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGUGU	28356
1834	9196	ACCUCUC C UGAGUUCU	9982	AGAACUCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGAGGU	28357
1835	9195	CCUCCUC U GAGUUCU	9983	AAGAUCUC CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGAGG	28358
1842	9188	CUGAGUUC U UUCUCCA	9984	UGGAAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IAACUCAG	28359
1846	9184	GUUCUUC U UCCAAGCC	9985	GGCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGAAC	28360
1849	9181	CUUUCUUC C AAGCCAGU	9986	ACUGGCUU CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAAAG	28361
1850	9180	UUUCUUC A AGCCAGUG	9987	CACUGGCU CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGAAA	28362
1854	9176	UUCCAAGC C AGUGGUCU	9988	AGACCACU CUGAUGAG	GCCGUUAGGC	CGAA	ICUUGGAA	28363
1855	9175	UCCAAGCC A GUGGUCU	9989	AAGACCAC CUGAUGAG	GCCGUUAGGC	CGAA	IGCUUGGA	28364
1862	9168	CAGUGGUC U UCAUUGAG	9990	CUCAUGA CUGAUGAG	GCCGUUAGGC	CGAA	IACCACUG	28365
1865	9165	UGGUCUUC A UUGAGAAA	9991	UUUCUCAA CUGAUGAG	GCCGUUAGGC	CGAA	IAAGACCA	28366
1876	9154	GAGAAAAC C CAGAGCCU	9992	AGGCUCUG CUGAUGAG	GCCGUUAGGC	CGAA	IUUUUCUC	28367
1877	9153	AGAAAACC C AGAGCCUC	9993	GAGGCUCU CUGAUGAG	GCCGUUAGGC	CGAA	IGUUUUCU	28368
1878	9152	GAAAACCC A GAGCCUCG	9994	CGAGGCUC CUGAUGAG	GCCGUUAGGC	CGAA	IGGUUUUC	28369

1883	9147	CCCAGAGC C UCGAACUC	9995	GAGUUCGA CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGGG	28370
1884	9146	CCAGAGCC U CGAACUCC	9996	GGAGUUCG CUGAUGAG	GCCGUUAGGC	CGAA IGCUCUGG	28371
1890	9140	CCUCGAAC U CCAGAAAG	9997	CUUUCUGG CUGAUGAG	GCCGUUAGGC	CGAA IUUCGAGG	28372
1892	9138	UCGAACUC C AGAAAGCG	9998	CGCUUUCU CUGAUGAG	GCCGUUAGGC	CGAA IAGUUCGA	28373
1893	9137	CGAACUCC A GAAAGCGA	9999	UCGCUUUC CUGAUGAG	GCCGUUAGGC	CGAA IGAGUUCG	28374
1904	9126	AAGCGAGC U CCGAGCCA	10000	UGGCUCGG CUGAUGAG	GCCGUUAGGC	CGAA ICUCGCUU	28375
1906	9124	GCGAGCUC C GAGCCACA	10001	UGUGGCUC CUGAUGAG	GCCGUUAGGC	CGAA IAGCUCGC	28376
1911	9119	CUCCGAGC C ACAUGAAC	10002	GUUCAUGU CUGAUGAG	GCCGUUAGGC	CGAA ICUCGGAG	28377
1912	9118	UCCGAGCC A CAUGAAC	10003	GGUUCAUG CUGAUGAG	GCCGUUAGGC	CGAA IGCUCGGA	28378
1914	9116	CGAGCCAC A UGAACCAA	10004	UUGGUUCA CUGAUGAG	GCCGUUAGGC	CGAA IUUGCUCG	28379
1920	9110	ACAUGAAC C AAAUGGCU	10005	AGCCAUUU CUGAUGAG	GCCGUUAGGC	CGAA IUUCAUGU	28380
1921	9109	CAUGAAC C AAAUGGCU	10006	GAGCCAUU CUGAUGAG	GCCGUUAGGC	CGAA IGUUCAUG	28381
1928	9102	CAAAUGGC U CUGCUUCC	10007	GGAAGCAG CUGAUGAG	GCCGUUAGGC	CGAA ICCAUUUG	28382
1930	9100	AAUGGCUC U GCUUCCCU	10008	AGGGAAGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCCAUU	28383
1933	9097	GGCUCUCG U UCCCUUGG	10009	CCAAGGGA CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGCC	28384
1936	9094	UCUGCUUC C CUUGGCCU	10010	AGGCCAAG CUGAUGAG	GCCGUUAGGC	CGAA IAAGCAGA	28385
1937	9093	CUGCUUCC C UUGGCCUU	10011	AAGGCCAA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGCAG	28386
1938	9092	UGCUUCCC U UGGCCUUU	10012	AAAGGCCA CUGAUGAG	GCCGUUAGGC	CGAA IGGAAAGCA	28387
1943	9087	CCCUUGGC C UUUCGAA	10013	UUCGGAAA CUGAUGAG	GCCGUUAGGC	CGAA ICCAAGGG	28388
1944	9086	CCUUGGCC U UUCGGAAC	10014	GUUCGGAA CUGAUGAG	GCCGUUAGGC	CGAA IGCCAAGG	28389
1948	9082	GGCCUUUC C GAACUCUC	10015	GAGAGUUC CUGAUGAG	GCCGUUAGGC	CGAA IAAAGGCC	28390
1953	9077	UUCCGAAC U CUCCGGGU	10016	ACCCGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUUCGGAA	28391
1955	9075	CCGAACUC U CCGGGUUU	10017	AAACCCGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUUCGG	28392
1957	9073	GAACUCUC C GGGUUUUU	10018	AAAAACCC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUUC	28393
1968	9062	GUUUUUUC U CUCUUUUU	10019	AAAGAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAAAAAAC	28394
1970	9060	UUUUUCUC U CUCUUUCC	10020	GGAAAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAAAAA	28395
1972	9058	UUUCUCUC U CUUUCCCA	10021	UGGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGAAA	28396
1974	9056	UCUCUCUC U UUCCCAUC	10022	GAUGGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAGAGA	28397
1978	9052	UCUCUUUC C CAUCAUGU	10023	ACAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAGA	28398
1979	9051	CUCUUUCC C AUCAUGUU	10024	AACAUGAU CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAGG	28399
1980	9050	UCUUUCCC A UCAUGUUG	10025	CAACAUGA CUGAUGAG	GCCGUUAGGC	CGAA IGGAAAGA	28400
1983	9047	UUCCCAUC A UGUUGUAA	10026	UUACAACA CUGAUGAG	GCCGUUAGGC	CGAA IAUGGGAA	28401
1996	9034	GUAAAUGC A AGUGUGAC	10027	GUCACACU CUGAUGAG	GCCGUUAGGC	CGAA ICAUUUAC	28402
2005	9025	AGUGUGAC A UJCCCCC	10028	GGGGGGAA CUGAUGAG	GCCGUUAGGC	CGAA IUCACACU	28403
2009	9021	UGACAUC C CCCCAG	10029	CUGCGGGG CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUCA	28404
2010	9020	GACAUUC C CCGCAGA	10030	UCUGCGGG CUGAUGAG	GCCGUUAGGC	CGAA IGAAUGUC	28405
2011	9019	ACAUUC C CCGCAGAU	10031	AUCUGCGG CUGAUGAG	GCCGUUAGGC	CGAA IGGAUGU	28406
2012	9018	CAUUC C CGCAGAU	10032	CAUCUGCG CUGAUGAG	GCCGUUAGGC	CGAA IGGGAUG	28407
2013	9017	AUUC C GCAGAU	10033	ACAUCUGC CUGAUGAG	GCCGUUAGGC	CGAA IGGGGAU	28408
2016	9014	CCCCCG C GAUGGCC	10034	GGCACAUC CUGAUGAG	GCCGUUAGGC	CGAA ICGGGGG	28409
2024	9006	AGAUGGC C UCGCGUC	10035	GAGCGCGA CUGAUGAG	GCCGUUAGGC	CGAA ICACAUCU	28410
2025	9005	GAUGGCC U CGCGUCC	10036	GGAGCGCG CUGAUGAG	GCCGUUAGGC	CGAA IGCAUUC	28411
2031	8999	CCUCGCGC U CCUCAUCC	10037	GGAUGAGG CUGAUGAG	GCCGUUAGGC	CGAA ICGCGAGG	28412
2033	8997	UCGCGCUC C UCAUCCAC	10038	GUGGAUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGCGCGA	28413
2034	8996	CGCGUCC U CAUCCACC	10039	GGUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA IAGCGCG	28414
2036	8994	CGUCUCC A UCCACCAU	10040	AUGGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGCG	28415
2039	8991	UCCUCAUC C ACCAUCUC	10041	GAGAUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGGGA	28416
2040	8990	CCUCAUCC A CCAUCUCC	10042	GGAGAUGG CUGAUGAG	GCCGUUAGGC	CGAA IGAUGAGG	28417
2042	8988	UCAUCCAC C AUCUCCCA	10043	UGGGAGAU CUGAUGAG	GCCGUUAGGC	CGAA IUGGAUGA	28418
2043	8987	CAUCCACC A UCUCCAA	10044	UUGGGAGA CUGAUGAG	GCCGUUAGGC	CGAA IGUGGAUG	28419
2046	8984	CCACCAUC U CCAAAAU	10045	AUUUUGGG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUGG	28420
2048	8982	ACCAUCUC C CAAAUUU	10046	AAAUUUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGAUGGU	28421
2049	8981	CCAUCUCC C AAAUUUU	10047	AAAAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IAGAUUGG	28422
2050	8980	CAUCUCC A AAUUUUU	10048	CAAAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAU	28423
2063	8967	UUUGGAUC U UCAACUGC	10049	GCAGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IAUCCAAA	28424
2066	8964	GGAUCUUC A ACUGCUUC	10050	GAAGCAGU CUGAUGAG	GCCGUUAGGC	CGAA IAAGAUC	28425
2069	8961	UCUUCAC U GCUUCUCU	10051	AGAGAAGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGAAGA	28426
2072	8958	UCAACUGC U UCUCUGGC	10052	GCCAGAGA CUGAUGAG	GCCGUUAGGC	CGAA ICAGUUGA	28427
2075	8955	ACUGCUUC U CUGGCGCU	10053	AGCGCCAG CUGAUGAG	GCCGUUAGGC	CGAA IAAGCAGU	28428
2077	8953	UGCUUCUC U GCGCUUC	10054	GGAGCGCC CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGCA	28429
2083	8947	UCUGGCGC U CCUCAU	10055	AAUGGAGG CUGAUGAG	GCCGUUAGGC	CGAA ICGCCAGA	28430

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2085	8945	UGGCGCUC C UCCAUUGA	10056	UCAAUUGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGCGCCA	28431
2086	8944	GGCGCUCU U CCAUUGAU	10057	AUCAUUGG CUGAUGAG	GCCGUUAGGC	CGAA	IGAGCGCC	28432
2088	8942	CGCUCUCU C AUUGAUUC	10058	GAUUCAAU CUGAUGAG	GCCGUUAGGC	CGAA	IAGGAGCG	28433
2089	8941	GCUCUCUC A UUGAUUCU	10059	AGAUCAA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGAGC	28434
2097	8933	AUUGAUUC U GCUCUUA	10060	UGAAGAGC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUCAAU	28435
2100	8930	GAUUCUGC U CUUCAAC	10061	GUUUGAAG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGAAUC	28436
2102	8928	UUCUGCUC U UCAACAUC	10062	AUGUUUGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGCAGAA	28437
2105	8925	UGCUCUUC A AACAUUGC	10063	GCCAUGUU CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAGCA	28438
2109	8921	CUUCAAC A UGGCACCC	10064	GGGUUGCA CUGAUGAG	GCCGUUAGGC	CGAA	IUUUGAAG	28439
2114	8916	AACAUUGC A CCCAAGC	10065	GCUUUGGG CUGAUGAG	GCCGUUAGGC	CGAA	ICCAUGUU	28440
2116	8914	CAUGGCAC C CAAAGCUG	10066	CAGCUUUG CUGAUGAG	GCCGUUAGGC	CGAA	IUGCCAUG	28441
2117	8913	AUGGCACC C AAAGCUGC	10067	GCAGCUUU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGCCAU	28442
2118	8912	UGGCACCC A AAGCUGCA	10068	UGCAGCUU CUGAUGAG	GCCGUUAGGC	CGAA	IGGUGCCA	28443
2123	8907	CCCAAGC U GCAUUGCU	10069	AGCAAUGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUUUGGG	28444
2126	8904	AAAGCUGC A UUGCUGUU	10070	AACAGCAA CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCUUU	28445
2131	8899	UGCAUUGC U GUUGACCU	10071	AGGUCAAC CUGAUGAG	GCCGUUAGGC	CGAA	ICAAUGCA	28446
2138	8892	CUGUUGAC C UUCUUAU	10072	AUAAGAAA CUGAUGAG	GCCGUUAGGC	CGAA	IUCAACAG	28447
2139	8891	UGUUGACC U UUCUUAUG	10073	CAUAAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IGUCAACA	28448
2143	8887	GACCUUUC U UAUGAAU	10074	AAUUAUA CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGGUC	28449
2153	8877	AUGAAUUC C UCUCGAGA	10075	UCUCGAGA CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUCAU	28450
2154	8876	UGAAUUC C UCUCGAG	10076	CUCUCGAG CUGAUGAG	GCCGUUAGGC	CGAA	IGAAUUCA	28451
2156	8874	AAUUCUC U CGAGAGCA	10077	UGCUCUCG CUGAUGAG	GCCGUUAGGC	CGAA	IAGGAAUU	28452
2164	8866	UCGAGAGC A CAUUCUGG	10078	CCAGAAUG CUGAUGAG	GCCGUUAGGC	CGAA	ICUCUCGA	28453
2166	8864	GAGAGCAC A UUCUGGGA	10079	UCCAGAAA CUGAUGAG	GCCGUUAGGC	CGAA	IUGCUCUC	28454
2170	8860	GCACAUUC U GGGACGUU	10080	AACGUCCC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUGUGC	28455
2183	8847	CGUUUUUC U CUGGCCAA	10081	UUGGCCAG CUGAUGAG	GCCGUUAGGC	CGAA	IAAAAACG	28456
2185	8845	UUUUUUC U GGCCAAA	10082	UUUUGGCC CUGAUGAG	GCCGUUAGGC	CGAA	IAGAAAAA	28457
2189	8841	UCUCUGGC C AAAACGC	10083	GCGUUUUU CUGAUGAG	GCCGUUAGGC	CGAA	ICCAGAGA	28458
2190	8840	CUCUGGCC A AAAACGCC	10084	GGCGUUUU CUGAUGAG	GCCGUUAGGC	CGAA	IGCCAGAG	28459
2198	8832	AAAACGC C CACAACCA	10085	UGGUUGUG CUGAUGAG	GCCGUUAGGC	CGAA	ICGUUUUU	28460
2199	8831	AAAACGCC C ACAACCAG	10086	CUGGUUGU CUGAUGAG	GCCGUUAGGC	CGAA	IGCGUUUU	28461
2200	8830	AAACGCC C CAACCAGU	10087	ACUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA	IGGCGUUU	28462
2202	8828	ACGCCAC A ACCAGUUG	10088	CAACUGGU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGGCGU	28463
2205	8825	CCCACAAC C AGUUGGUG	10089	CACCAACU CUGAUGAG	GCCGUUAGGC	CGAA	IUUGUGGG	28464
2206	8824	CCACAACC A GUUGGUGG	10090	CCACAAC CUGAUGAG	GCCGUUAGGC	CGAA	IUUGUGGG	28465
2217	8813	UGGUGGUC U CAUUGAGC	10091	GCUCAUG CUGAUGAG	GCCGUUAGGC	CGAA	IACCACCA	28466
2219	8811	GUGGUCUC A UUGAGCAC	10092	GUGCUCAA CUGAUGAG	GCCGUUAGGC	CGAA	IAGACCAC	28467
2226	8804	CAUUGAGC A CGUACUUC	10093	GAAGUACG CUGAUGAG	GCCGUUAGGC	CGAA	ICUCAUUG	28468
2232	8798	GCACGUAC U UCACUCCU	10094	AGGAGUGA CUGAUGAG	GCCGUUAGGC	CGAA	IUACGUGC	28469
2235	8795	CGUACUUC A CUCCUUCU	10095	AGAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGUACG	28470
2237	8793	UACUUCAC U CCUUCUGG	10096	CCAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA	IUGAAGUA	28471
2239	8791	CUUCACUC C UUCUGGCG	10097	CGCCAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGAAG	28472
2240	8790	UUCACUCC U UCUGGCGG	10098	CCGCCAGA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGUGAA	28473
2243	8787	ACUCUUC U GGCUGUUC	10099	GAACCGCC CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGAGU	28474
2252	8778	GGCGGUUC A GGAGCUUU	10100	AAAGCUCC CUGAUGAG	GCCGUUAGGC	CGAA	IAACCGCC	28475
2258	8772	UCAGGAGC U UUCGUGUC	10101	GACACGAA CUGAUGAG	GCCGUUAGGC	CGAA	ICUCCUGA	28476
2267	8763	UUCGUGUC C ACCUUCUC	10102	GAGAAGGU CUGAUGAG	GCCGUUAGGC	CGAA	IACACGAA	28477
2268	8762	UCGUGUCC A CCUUCUCU	10103	AGAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA	IGACACGA	28478
2270	8760	GUGUCCAC C UUCUCUUU	10104	AAAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IUGGACAC	28479
2271	8759	UGUCCACC U UCUCUUUG	10105	CAAAGAGA CUGAUGAG	GCCGUUAGGC	CGAA	IUGGACA	28480
2274	8756	CCACCUUC U CUUUGAAC	10106	GUUCAAG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGUGG	28481
2276	8754	ACCUUCUC U UUGAACAC	10107	GUGUUCAA CUGAUGAG	GCCGUUAGGC	CGAA	IAGAAGGU	28482
2283	8747	CUUUGAAC A CUCGUCG	10108	GCAGCGAG CUGAUGAG	GCCGUUAGGC	CGAA	IUUCAAAG	28483
2285	8745	UUGAACAC U CGCUGCUG	10109	CAGCAGCG CUGAUGAG	GCCGUUAGGC	CGAA	IUGUCAA	28484
2289	8741	ACACUCGC U GCUGCCCG	10110	CGGGCAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICGAGUGU	28485
2292	8738	CUCGUCG U GCCGAAG	10111	CUUCGGGC CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCGAG	28486
2295	8735	GCUGCUGC C CGAAGGGA	10112	UCCCUUCG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCAGC	28487
2296	8734	CUGCUGCC C GAAGGGAG	10113	CUCCCUUC CUGAUGAG	GCCGUUAGGC	CGAA	ICGAGCAG	28488
2312	8718	GUAGUGUC A GUCAUGGC	10114	GCCAUGAC CUGAUGAG	GCCGUUAGGC	CGAA	IACACUAC	28489
2316	8714	UGUCAGUC A UGGCAUG	10115	CAUGGCCA CUGAUGAG	GCCGUUAGGC	CGAA	IACUGACA	28490
2321	8709	GUCAUGGC C AUGGUGGU	10116	ACCACCAU CUGAUGAG	GCCGUUAGGC	CGAA	ICCAUGAC	28491

2322	8708	UCAUGGCC A UGGUGGUA	10117	UACCACCA CUGAUGAG	GCCGUUAGGC	CGAA	IGCCAUGA	28492
2333	8697	GUGGUUAC A UUCGUGAU	10118	AUCACGAA CUGAUGAG	GCCGUUAGGC	CGAA	IUUACCAC	28493
2348	8682	AUGGUGUC C CAUGGUUU	10119	AAACCAUG CUGAUGAG	GCCGUUAGGC	CGAA	IACACCAU	28494
2349	8681	UGGUGUCC C AUGGUUUU	10120	AAAACCAU CUGAUGAG	GCCGUUAGGC	CGAA	IGACACCA	28495
2350	8680	GGUGUCCC A UGGUUUUG	10121	CAAAACCA CUGAUGAG	GCCGUUAGGC	CGAA	IGGACACC	28496
2367	8663	AGAGGAGC C UGACCACU	10122	AGUGGUCA CUGAUGAG	GCCGUUAGGC	CGAA	ICUCCUCU	28497
2368	8662	GAGGAGCC U GACCACUC	10123	GAGUGGUC CUGAUGAG	GCCGUUAGGC	CGAA	IGCUCUCU	28498
2372	8658	AGCCUGAC C ACUCCAUI	10124	AAUGGAGU CUGAUGAG	GCCGUUAGGC	CGAA	IUCAGGCU	28499
2373	8657	GCCUGACC A CUCCAUIG	10125	CAAUGGAG CUGAUGAG	GCCGUUAGGC	CGAA	IGUCAGGC	28500
2375	8655	CUGACCAC U CCAUUGAC	10126	GUCAAUGG CUGAUGAG	GCCGUUAGGC	CGAA	IUGGUCAG	28501
2377	8653	GACCACUC C AUUGACCA	10127	UGGUCAAU CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGGUC	28502
2378	8652	ACCACUCC A UUGACCAG	10128	CUGGUCAA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGUGGU	28503
2384	8646	CCAUUGAC C AGCGAACU	10129	AGUUCGCU CUGAUGAG	GCCGUUAGGC	CGAA	IUCAUUGG	28504
2385	8645	CAUUGACC A GCGAACUG	10130	CAGUUCGC CUGAUGAG	GCCGUUAGGC	CGAA	IGUCAUUG	28505
2392	8638	CAGCGAAC U GCGGAGC	10131	GCUCCGCC CUGAUGAG	GCCGUUAGGC	CGAA	IUUCGCUG	28506
2401	8629	GCGGAGCC C UGUGGGCU	10132	AGCCCAUA CUGAUGAG	GCCGUUAGGC	CGAA	ICUCCGCC	28507
2402	8628	GCGGAGCC U GUGGGCUU	10133	AAGCCCAU CUGAUGAG	GCCGUUAGGC	CGAA	IGCUCGCC	28508
2409	8621	CUGUGGGC U UCACAUA	10134	UGAUGAGA CUGAUGAG	GCCGUUAGGC	CGAA	ICCCACAG	28509
2412	8618	UGGGCUUC A CAUCAUA	10135	UUAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA	IAGGCCCA	28510
2414	8616	GGCUUCAC A UCAUAACU	10136	AGUUAUGA CUGAUGAG	GCCGUUAGGC	CGAA	IUGAAGCC	28511
2417	8613	UUCACAUC A UAACUGCC	10137	GGCAGUUA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUGAA	28512
2422	8608	AUCAUAAC U GCCGUGAU	10138	AUCACGGC CUGAUGAG	GCCGUUAGGC	CGAA	IUUAUGAU	28513
2425	8605	AUAACUGC C GUGAUAUG	10139	ACUAUCAC CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUUAU	28514
2436	8594	GAUAGUUC C AGGUUCUA	10140	UAGAACCU CUGAUGAG	GCCGUUAGGC	CGAA	IAACUUAU	28515
2437	8593	AUAGUUCU A GGUUCUAU	10141	AUAGAACC CUGAUGAG	GCCGUUAGGC	CGAA	IGAACUAU	28516
2443	8587	CCAGGUUC U AUAUGGUU	10142	ACCAUAU CUGAUGAG	GCCGUUAGGC	CGAA	IAACUGG	28517
2457	8573	GGUGGUUC U CAUCGUGG	10143	CCACGAUG CUGAUGAG	GCCGUUAGGC	CGAA	IAACCACC	28518
2459	8571	UGGUUCUC A UCGUGGUG	10144	CACCACGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGAACCA	28519
2469	8561	CGUGGUGC C ACGUCGAA	10145	UUCGACGU CUGAUGAG	GCCGUUAGGC	CGAA	ICACCACG	28520
2470	8560	GUGGUGCC A CGUCGAAC	10146	GUUCGACG CUGAUGAG	GCCGUUAGGC	CGAA	IGCACCAC	28521
2479	8551	CGUCGAAC U GUACUCAC	10147	GUGAGUAC CUGAUGAG	GCCGUUAGGC	CGAA	IUUCGACG	28522
2484	8546	AACUGUAC U CACGCCUG	10148	CAGGCGUG CUGAUGAG	GCCGUUAGGC	CGAA	IUACAGUU	28523
2486	8544	CUGUACUC A CGCCUGAG	10149	CUCAGGCG CUGAUGAG	GCCGUUAGGC	CGAA	IAGUACAG	28524
2490	8540	ACUCACGC C UGAGUCGU	10150	ACAGCUCA CUGAUGAG	GCCGUUAGGC	CGAA	ICGAGAGU	28525
2491	8539	CUCACGCC U GAGUCGUU	10151	AACGACUC CUGAUGAG	GCCGUUAGGC	CGAA	IGCGUGAG	28526
2501	8529	AGUCGUUC A AUCCUGUU	10152	AACAGGAU CUGAUGAG	GCCGUUAGGC	CGAA	IAACGACU	28527
2505	8525	GUUCAUUC C UGUUCUUG	10153	CAAGAACA CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGAAC	28528
2506	8524	UUCAAUCC U GUUCUUGA	10154	UCAAGAAC CUGAUGAG	GCCGUUAGGC	CGAA	IGAUGGAA	28529
2511	8519	UCCUGUUC U UGAUUUUA	10155	UAAAUAUA CUGAUGAG	GCCGUUAGGC	CGAA	IAACAGGA	28530
2521	8509	GAUUUUAC U GGUUCUG	10156	CAGACACC CUGAUGAG	GCCGUUAGGC	CGAA	IUAAAUCU	28531
2528	8502	CUGGUGUC U GAGUUGAG	10157	CUCACACU CUGAUGAG	GCCGUUAGGC	CGAA	IACACCAG	28532
2538	8492	AGUUGAGC A GGGGUUUU	10158	AAAACCCC CUGAUGAG	GCCGUUAGGC	CGAA	ICUCAACU	28533
2548	8482	GGGUUUUC C CACCGCCC	10159	GGGCGGUG CUGAUGAG	GCCGUUAGGC	CGAA	IAAAACCC	28534
2549	8481	GGUUUUCC C ACCGCCCU	10160	AGGGCGGU CUGAUGAG	GCCGUUAGGC	CGAA	IGAAAACC	28535
2550	8480	GUUUUCCC A CCGCCUG	10161	CAGGGCGG CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAAC	28536
2552	8478	UUUCCAC C GCCUGGU	10162	ACCAGGGC CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAAA	28537
2555	8475	CCCACGC C CUGGUUCC	10163	GGAACCAG CUGAUGAG	GCCGUUAGGC	CGAA	ICGGUGGG	28538
2556	8474	CCACCGCC C UGUUUCCA	10164	UGGAACCA CUGAUGAG	GCCGUUAGGC	CGAA	IGCGGUGG	28539
2557	8473	CACCGCCC U GGUUCCAC	10165	GUGGAACC CUGAUGAG	GCCGUUAGGC	CGAA	IGGCGGUG	28540
2563	8467	CCUGGUUC C ACUCCCA	10166	UGGGAAGU CUGAUGAG	GCCGUUAGGC	CGAA	IAACCAGG	28541
2564	8466	CUGGUUCC A CUUCCAA	10167	UUGGGAAG CUGAUGAG	GCCGUUAGGC	CGAA	IGAACCAG	28542
2566	8464	GGUUCAC U UCCCAAGU	10168	ACUUGGGA CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAACC	28543
2569	8461	UCCACUUC C CAAGUUUA	10169	UAAACUUG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGUGGA	28544
2570	8460	CCACUUC C AAGUUUAC	10170	GUAAACUU CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGUGG	28545
2571	8459	CACUUCUCC A AGUUUACA	10171	UGUAAACU CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAGUU	28546
2579	8451	AAGUUUAC A UCUCUCC	10172	GAGGAAGA CUGAUGAG	GCCGUUAGGC	CGAA	IUAAACUU	28547
2582	8448	UUUACAUC U UCCUCGUA	10173	UACGAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUAAA	28548
2585	8445	ACAUCUUC C UCGUAUUG	10174	CAAUACGA CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAUGU	28549
2586	8444	CAUCUUCU U CGUAUUGG	10175	CCAAUACG CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGAUG	28550
2599	8431	UUGGGGUC C CUUCCAGG	10176	CCUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA	IACCCCAA	28551
2600	8430	UGGGGUCC C UUCCAGGU	10177	ACCUGGAA CUGAUGAG	GCCGUUAGGC	CGAA	IGACCCCA	28552

Table IX

2601	8429	GGGGUCCC	U	UCCAGGUC	10178	GACCUGGA	CUGAUGAG	GCCGUUAGGC	CGAA	IGGACCCC	28553
2604	8426	GUCCCUUC	C	AGGUCCUU	10179	AAGGACCU	CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGGAC	28554
2605	8425	UCCCUUCC	A	GGUCCUUU	10180	AAAGGACC	CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGGGA	28555
2610	8420	UCCAGGUC	C	UUUUUCC	10181	GGAAAAAA	CUGAUGAG	GCCGUUAGGC	CGAA	IACCUGGA	28556
2611	8419	CCAGGUCC	U	UUUUUCCA	10182	UGGAAAAA	CUGAUGAG	GCCGUUAGGC	CGAA	IGACCUGG	28557
2618	8412	CUUUUUUC	C	AUUCUUC	10183	GGAAGAAU	CUGAUGAG	GCCGUUAGGC	CGAA	IAAAAAAG	28558
2619	8411	UUUUUUC	A	UUCUUCU	10184	AGGAAGAA	CUGAUGAG	GCCGUUAGGC	CGAA	IGAAAAAA	28559
2623	8407	UUCCAUC	U	UCCUAGGA	10185	UCCUAGGA	CUGAUGAG	GCCGUUAGGC	CGAA	IAAUGGAA	28560
2626	8404	CAUUCUUC	C	UAGGAGCA	10186	UGCUCUUA	CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAAUG	28561
2627	8403	AUUCUUC	U	AGGAGCAC	10187	GUGCUUCU	CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAAAU	28562
2634	8396	CUAGGAGC	A	CCUGGCGU	10188	CAGCCAGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICUCCUAG	28563
2636	8394	AGGAGCAC	C	UGGCUGGU	10189	ACCAGCCA	CUGAUGAG	GCCGUUAGGC	CGAA	IUGCUCCU	28564
2637	8393	GGAGCACC	U	GGCUGGUC	10190	GACCAGCC	CUGAUGAG	GCCGUUAGGC	CGAA	IGUGCUCC	28565
2641	8389	CACCUGGC	U	GGUCAUAU	10191	AUAUGACC	CUGAUGAG	GCCGUUAGGC	CGAA	ICCAGGUG	28566
2646	8384	GGCUGGUC	A	UAUUCACU	10192	AGUGAAUA	CUGAUGAG	GCCGUUAGGC	CGAA	IACCAGCC	28567
2652	8378	UCAUAUUC	A	CUGAAUGU	10193	ACAUUCAG	CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUAUG	28568
2654	8376	AUAUUCAC	U	GAAUGUAC	10194	GUACAUCU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGAAUAU	28569
2663	8367	GAAUGUAC	C	ACAUUGCC	10195	GGCAAUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUACAUUC	28570
2664	8366	AAUGUACC	A	CAUUGCCU	10196	AGGCAUUG	CUGAUGAG	GCCGUUAGGC	CGAA	IGUACAUU	28571
2666	8364	UGUACCAC	A	UUGCCUGA	10197	UCAGGCAA	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGUACA	28572
2671	8359	CACAUUGC	C	UGAAGCUC	10198	GAGCUUCA	CUGAUGAG	GCCGUUAGGC	CGAA	ICAAUGUG	28573
2672	8358	ACAUUGCC	U	GAAGCUCG	10199	CGAGCUUC	CUGAUGAG	GCCGUUAGGC	CGAA	IGCAAUGU	28574
2678	8352	CCUGAAGC	U	CGACUCAC	10200	GUGAGUCG	CUGAUGAG	GCCGUUAGGC	CGAA	ICUUCAGG	28575
2683	8347	AGCUCGAC	U	CACCCAAU	10201	AUUGGGUG	CUGAUGAG	GCCGUUAGGC	CGAA	IUCGAGCU	28576
2685	8345	UCGACUC	A	CCCAUAC	10202	GUAUUGGG	CUGAUGAG	GCCGUUAGGC	CGAA	IAGUCGAG	28577
2687	8343	CGACUCAC	C	CAAUACAU	10203	AUGUAUUG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGAGUCG	28578
2688	8342	GACUCACC	C	AAUACAUC	10204	GAUGUAUU	CUGAUGAG	GCCGUUAGGC	CGAA	IGUGAGUC	28579
2689	8341	ACUCACCC	A	AUACAUCU	10205	AGAUGUAU	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUGAGU	28580
2694	8336	CCCAUAC	A	UCUCGUGC	10206	GCACGAGA	CUGAUGAG	GCCGUUAGGC	CGAA	IUAUUGGG	28581
2697	8333	AAUACAUC	U	CGUGCGUG	10207	CACGCACG	CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUAUU	28582
2712	8318	UGGAAUUC	C	GUGAGAGU	10208	ACUCUCAC	CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUCCA	28583
2728	8302	UGGGUUUC	U	GACCAGUC	10209	GACUGGUC	CUGAUGAG	GCCGUUAGGC	CGAA	IAAACCCA	28584
2732	8298	UUUCUGAC	C	AGUCCCCC	10210	GGGGGACU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGAGAAA	28585
2733	8297	UUCUGACC	A	GUCCCCC	10211	GGGGGGAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGUCAGAA	28586
2737	8293	GACCAGUC	C	CCCCCAU	10212	AUGGGGGG	CUGAUGAG	GCCGUUAGGC	CGAA	IACUGGUC	28587
2738	8292	ACCAGUCC	C	CCCCCAUA	10213	UAUGGGGG	CUGAUGAG	GCCGUUAGGC	CGAA	IGACUGGU	28588
2739	8291	CCAGUCCC	C	CCCCAUAC	10214	GUAUGGGG	CUGAUGAG	GCCGUUAGGC	CGAA	IGGACUGG	28589
2740	8290	CAGUCCCC	C	CCCAUACC	10215	GGUAUGGG	CUGAUGAG	GCCGUUAGGC	CGAA	IGGGACUG	28590
2741	8289	AGUCCCCC	C	CCAUACCG	10216	CGUAUGGG	CUGAUGAG	GCCGUUAGGC	CGAA	IGGGGACU	28591
2742	8288	GUCCCCC	C	CAUACCGG	10217	CCGGUAUG	CUGAUGAG	GCCGUUAGGC	CGAA	IGGGGGAC	28592
2743	8287	UCCCCCCC	C	AUACCGGC	10218	CCCGUAU	CUGAUGAG	GCCGUUAGGC	CGAA	IGGGGGGA	28593
2744	8286	CCCCCCCC	A	UACCGGCG	10219	CGCCGGUA	CUGAUGAG	GCCGUUAGGC	CGAA	IGGGGGGG	28594
2748	8282	CCCCAUAC	C	GGCGUUGG	10220	CCAACGCC	CUGAUGAG	GCCGUUAGGC	CGAA	IUAUGGGG	28595
2760	8270	GUUGGAGC	A	GCUCCAUC	10221	GAUGGAGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICUCCAAC	28596
2763	8267	GGAGCAGC	U	CCAUCUUC	10222	GAAGAUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCUCC	28597
2765	8265	AGCAGCUC	C	AUCUUCUC	10223	GAGAAGAU	CUGAUGAG	GCCGUUAGGC	CGAA	IAGCUCUC	28598
2766	8264	GCAGCUCC	A	UCUUCUCU	10224	AGAGAAGA	CUGAUGAG	GCCGUUAGGC	CGAA	IGAGCUGC	28599
2769	8261	GCUCCAUC	U	UCUCUAUG	10225	CAUAGAGA	CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGAGC	28600
2772	8258	CCAUCUUC	U	CUAUGACU	10226	AGUCAUAG	CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAUGG	28601
2774	8256	AUCUUCUC	U	AUGACUUU	10227	AAAGUCAU	CUGAUGAG	GCCGUUAGGC	CGAA	IAGAAGAU	28602
2780	8250	UCUAUGAC	U	UUCGGCAU	10228	AUGCCGAA	CUGAUGAG	GCCGUUAGGC	CGAA	IUCAUAGA	28603
2787	8243	CUUUCGGC	A	UGUAGGGG	10229	CCCCUACA	CUGAUGAG	GCCGUUAGGC	CGAA	ICCGAAAG	28604
2797	8233	GUAGGGGC	A	GAGCACCU	10230	AGGUGCUC	CUGAUGAG	GCCGUUAGGC	CGAA	ICCCCUAC	28605
2802	8228	GGCAGAGC	A	CCUUCACG	10231	CGUGAAGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICUCUGCC	28606
2804	8226	CAGAGCAC	C	UUCACGCA	10232	UGCGUGAA	CUGAUGAG	GCCGUUAGGC	CGAA	IUGCUCUG	28607
2805	8225	AGAGCAGC	U	UCACGCAA	10233	UUGCGUGA	CUGAUGAG	GCCGUUAGGC	CGAA	IGUGCUCU	28608
2808	8222	GCACCUUC	A	CGAAAAU	10234	AUUUUGCG	CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGUGC	28609
2812	8218	CUUCACGC	A	AAAUUCCC	10235	GGGAUUUU	CUGAUGAG	GCCGUUAGGC	CGAA	ICGUGAAG	28610
2819	8211	CAAAUUC	C	CUUGGCC	10236	GGGCCAAG	CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUUUG	28611
2820	8210	AAAUUCC	C	UUGGCCU	10237	AGGGCCAA	CUGAUGAG	GCCGUUAGGC	CGAA	IGAAUUUU	28612
2821	8209	AAAUUCCC	U	UGGCCUC	10238	GAGGGCCA	CUGAUGAG	GCCGUUAGGC	CGAA	IGGAUUUU	28613

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2826	8204	CCCUUGGC C CUCGGUGC	10239	GCACCGAG CUGAUGAG	GCCGUUAGGC	CGAA ICCAAGGG	28614
2827	8203	CCUUGGCC C UCGGUGCA	10240	UGCACCGA CUGAUGAG	GCCGUUAGGC	CGAA IGCCAAGG	28615
2828	8202	CUUGGCC C CGGUGCAG	10241	CUGCACCG CUGAUGAG	GCCGUUAGGC	CGAA IGGCCAAG	28616
2835	8195	CUCGGUGC A GCCAGUCC	10242	GGACUGGC CUGAUGAG	GCCGUUAGGC	CGAA ICACCGAG	28617
2838	8192	GGUGCAGC C AGUCCUCA	10243	UGAGGACU CUGAUGAG	GCCGUUAGGC	CGAA ICUGCACC	28618
2839	8191	GUGCAGCC A GUCCUCA	10244	UUGAGGAC CUGAUGAG	GCCGUUAGGC	CGAA IGCUGCAC	28619
2843	8187	AGCCAGUC C UCAACCAU	10245	AUGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IACUGGCU	28620
2844	8186	GCCAGUCC U CAACCAU	10246	AAUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGACUGGC	28621
2846	8184	CAGUCCUC A ACCAUUUC	10247	GAAUUGU CUGAUGAG	GCCGUUAGGC	CGAA IAGGACUG	28622
2849	8181	UCCUCAAC C AUUUCAG	10248	CUUGAAU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAUAG	28623
2850	8180	CCUCAACC A UUUCAAGG	10249	CCUUGAAA CUGAUGAG	GCCGUUAGGC	CGAA IGUUGAGG	28624
2855	8175	ACCAUUC A AGGACCCG	10250	CGGGUCCU CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGGU	28625
2861	8169	UCAAGGAC C CGAAUCGU	10251	ACGAUUCG CUGAUGAG	GCCGUUAGGC	CGAA IUCCUUGA	28626
2862	8168	CAAGGACC C GAAUCGUC	10252	GACGAUUC CUGAUGAG	GCCGUUAGGC	CGAA IGUCCUUG	28627
2871	8159	GAAUCGUC C UAUUCUCU	10253	AGAGCAUA CUGAUGAG	GCCGUUAGGC	CGAA IACGAUUC	28628
2872	8158	AAUCGUCC U AUGCUCU	10254	AAGAGCAU CUGAUGAG	GCCGUUAGGC	CGAA IGACGAUU	28629
2877	8153	UCCUAUGC U CUUCAACC	10255	GGUUGAAG CUGAUGAG	GCCGUUAGGC	CGAA ICAUAGGA	28630
2879	8151	CUAUGCUC U UCAACCUC	10256	GAGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGCAUAG	28631
2882	8148	GAGCUCUC A ACCUCAGC	10257	GCUGAGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGAGCA	28632
2885	8145	UCUUC AAC C UACGACU	10258	AGUGCUGA CUGAUGAG	GCCGUUAGGC	CGAA IUUGAAGA	28633
2886	8144	CUUCAACC U CAGCACU	10259	AAGUGCUG CUGAUGAG	GCCGUUAGGC	CGAA IGUUGAAG	28634
2888	8142	UCAACCUC A GCACUUGA	10260	UCAAGUGC CUGAUGAG	GCCGUUAGGC	CGAA IAGGUUGA	28635
2891	8139	ACCUCAGC A CUUGACGA	10261	UCGUC AAG CUGAUGAG	GCCGUUAGGC	CGAA ICUGAGGU	28636
2893	8137	CUCAGCAC U UGACGAGG	10262	CCUCGUCA CUGAUGAG	GCCGUUAGGC	CGAA IUGCUGAG	28637
2904	8126	ACGAGGAC U CUCCGAUG	10263	CAUCGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCGU	28638
2906	8124	GAGGACUC U CCGAUGUC	10264	GACAUCGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUCCUC	28639
2908	8122	GGACUCUC C GAUGUCAC	10265	GUGACAUC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUCC	28640
2915	8115	CCGAUGUC A CAAAGGAG	10266	CUCCUUG CUGAUGAG	GCCGUUAGGC	CGAA IACAUCGG	28641
2917	8113	GAUGUCAC A AAGGAGGG	10267	CCCUCUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGACAUC	28642
2930	8100	AGGGUGUC A CAACACUC	10268	GAGUGUUG CUGAUGAG	GCCGUUAGGC	CGAA IACACCCU	28643
2932	8098	GGUGUCAC A ACACUCAG	10269	CUGAGUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGACACC	28644
2935	8095	GUCACAAC A CUCAGAAG	10270	CUUCUGAG CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGAC	28645
2937	8093	CACAACAC U CAGAAGGU	10271	ACCUCUC CUGAUGAG	GCCGUUAGGC	CGAA IAGUUGUG	28646
2939	8091	CAACACUC A GAAGGUCU	10272	AGACCUUC CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUUG	28647
2947	8083	AGAAGGUC U GUAGAACA	10273	UGUUCUAC CUGAUGAG	GCCGUUAGGC	CGAA IACCUUCU	28648
2955	8075	UGUAGAAC A CAUCCACU	10274	AGUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA IUUCUACA	28649
2957	8073	UAGAACAC A UCCACUCC	10275	GGAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUGUUCUA	28650
2960	8070	AACACAUC C ACUCCACU	10276	AGUGGAGU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUUU	28651
2961	8069	ACACAUC C ACUCCACU	10277	GAGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IGAUGUGU	28652
2963	8067	ACAUCAC U CCACUCU	10278	AAGAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IUGGAUGU	28653
2965	8065	AUCCACUC C ACUCUUA	10279	UGAAGAGU CUGAUGAG	GCCGUUAGGC	CGAA IAGUGGAU	28654
2966	8064	UCCACUCC A CUCUUAU	10280	AUGAAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGUGGA	28655
2968	8062	CACUCCAC U CUUCAUGG	10281	CCAUGAAG CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGUG	28656
2970	8060	CUCCACUC U UCAUGGUG	10282	CACCAUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGGAG	28657
2973	8057	CACUCUUC A UGUGACA	10283	UGUCACCA CUGAUGAG	GCCGUUAGGC	CGAA IAAGAGUG	28658
2981	8049	AUGGUGAC A AUGUCCA	10284	UGGAACAU CUGAUGAG	GCCGUUAGGC	CGAA IUACCAU	28659
2988	8042	CAAUGUUC C AUCCAUA	10285	UUAUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IAAUAUUG	28660
2989	8041	AAUGUUC C AUCCAUA	10286	GUUAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGAACAUU	28661
2992	8038	GUCCAUC C AUAACUUU	10287	AAAGUUAU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGAAC	28662
2993	8037	UCCAUC C UAACUUUG	10288	CAAAGUUA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGAA	28663
2998	8032	UCCAUAAC U UUGACUA	10289	UAGUGCAA CUGAUGAG	GCCGUUAGGC	CGAA IUUAUGGA	28664
3003	8027	AACUUUGC A CUAGUUGG	10290	CCAACUAG CUGAUGAG	GCCGUUAGGC	CGAA ICAAAGUU	28665
3005	8025	CUUUGCAC U AGUUGGGG	10291	CCCCAACU CUGAUGAG	GCCGUUAGGC	CGAA IUGCAAAG	28666
3015	8015	GUUGGGGC U CUUCAUGU	10292	ACAUGAAG CUGAUGAG	GCCGUUAGGC	CGAA ICCCAAC	28667
3017	8013	UGGGGCUC U UCAUGUCC	10293	GGACAUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCCCA	28668
3020	8010	GGCUCUUC A UGUCCGGG	10294	CCGGACA CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGCC	28669
3025	8005	UUCAUGUC C GGGACCGC	10295	GCGGUCCC CUGAUGAG	GCCGUUAGGC	CGAA IACAUGAA	28670
3031	7999	UCCGGGAC C GCCUUUG	10296	CAAAGGGC CUGAUGAG	GCCGUUAGGC	CGAA IUCCCGGA	28671
3034	7996	GGGACCGC C CUUGUGU	10297	ACACAAAG CUGAUGAG	GCCGUUAGGC	CGAA ICGGUCCC	28672
3035	7995	GGACCGCC C UUUGUGUA	10298	UACACAAA CUGAUGAG	GCCGUUAGGC	CGAA IGCUGUCC	28673
3036	7994	GACCGCCC U UUGUGUAC	10299	GUACACAA CUGAUGAG	GCCGUUAGGC	CGAA IGGCGGUC	28674

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3045	7985	UUGUGUAC C CUCUGACU	10300	AGUCAGAG CUGAUGAG	GCCGUUAGGC	CGAA IUACACAA	28675
3046	7984	UGUGUACC C UCUGACUU	10301	AAGUCAGA CUGAUGAG	GCCGUUAGGC	CGAA IGUACACA	28676
3047	7983	GUGUACCC U CUGACUUC	10302	GAAGUCAG CUGAUGAG	GCCGUUAGGC	CGAA IGGUACAC	28677
3049	7981	GUACCCUC U GACUUCUU	10303	AAGAAGUC CUGAUGAG	GCCGUUAGGC	CGAA IAGGGUAC	28678
3053	7977	CCUCUGAC U UCUGGAC	10304	GUCCAAGA CUGAUGAG	GCCGUUAGGC	CGAA IUCAGAGG	28679
3056	7974	CUGACUUC U UGGACUCU	10305	AGAGUCCA CUGAUGAG	GCCGUUAGGC	CGAA IAAGUCAG	28680
3062	7968	UCUUGGAC U CUUUUUG	10306	CAAAAAAG CUGAUGAG	GCCGUUAGGC	CGAA IUCCAAGA	28681
3064	7966	UUGGACUC U UUUUUGG	10307	CCCAAAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGUCCAA	28682
3077	7953	UGGGUUGC C AUUAUAGUA	10308	UACUAUAU CUGAUGAG	GCCGUUAGGC	CGAA ICAACCCA	28683
3078	7952	GGGUUGCC A UUAUAGUA	10309	UUAUAUAU CUGAUGAG	GCCGUUAGGC	CGAA IAGAACCC	28684
3088	7942	AUAAGUAC A CCAACCGC	10310	GCGGUUGG CUGAUGAG	GCCGUUAGGC	CGAA IUUACUAU	28685
3090	7940	AGUAAAC C AACCGCCU	10311	AGGCGGUU CUGAUGAG	GCCGUUAGGC	CGAA IUGUUAU	28686
3091	7939	GUAACACC A ACCGCCUC	10312	GAGGCGGU CUGAUGAG	GCCGUUAGGC	CGAA IGUGUUAC	28687
3094	7936	ACACCAAC C GCCUCUUC	10313	GAAGAGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUGU	28688
3097	7933	CCAACCGC C UCUCACAC	10314	GUGGAAGA CUGAUGAG	GCCGUUAGGC	CGAA ICGGUUGG	28689
3098	7932	CAACCGCC U CUUCCACA	10315	UGUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA IGCUGUUG	28690
3100	7930	ACCGCCUC U UCCACAU	10316	GAUGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGCGGU	28691
3103	7927	GCCUCUUC C ACAUCCAA	10317	UUGGAUGU CUGAUGAG	GCCGUUAGGC	CGAA IAAGAGGC	28692
3104	7926	CCUCUUC C CAUCCAAG	10318	CUUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA IGAGAGAG	28693
3106	7924	UCUUCAC A UCCAAGGU	10319	ACCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGAAGA	28694
3109	7921	UCCACAU C AAGGUCAA	10320	UUGACCUU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGA	28695
3110	7920	CCACAUCC A AGGUCAAU	10321	AUUGACCU CUGAUGAG	GCCGUUAGGC	CGAA IGAUGUGG	28696
3116	7914	CCAAGGUC A AUCACUUU	10322	AAAGUGAU CUGAUGAG	GCCGUUAGGC	CGAA IACCUUGG	28697
3120	7910	GGUCAAUC A CUUUUCG	10323	CGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGACC	28698
3122	7908	UCAUUCAC U UUUCCGAC	10324	GUCGGAAA CUGAUGAG	GCCGUUAGGC	CGAA IUGAUUGA	28699
3127	7903	CACUUUUC C GACCGGUU	10325	AACCGGUC CUGAUGAG	GCCGUUAGGC	CGAA IAAAAGUG	28700
3131	7899	UUUCCGAC C GGUUCGAG	10326	CUCGAACC CUGAUGAG	GCCGUUAGGC	CGAA IUCGGAAA	28701
3144	7886	CGAGAAAC C UCCGUUCG	10327	CGAACGGA CUGAUGAG	GCCGUUAGGC	CGAA IUUUCUCG	28702
3145	7885	GAGAAACC U CCGUUCGA	10328	UCGAACGG CUGAUGAG	GCCGUUAGGC	CGAA IGUUCUC	28703
3147	7883	GAAACCCU C GUUCGACC	10329	GGUCGAAC CUGAUGAG	GCCGUUAGGC	CGAA IAGGUUUC	28704
3155	7875	CGUUCGAC C AGCCAUCU	10330	AGAUGGCU CUGAUGAG	GCCGUUAGGC	CGAA IUCGAACG	28705
3156	7874	GUUCGACC A GCCAUCUC	10331	GAGAUGGC CUGAUGAG	GCCGUUAGGC	CGAA IGUCGAAC	28706
3159	7871	CGACGAC C AUCUCAGU	10332	ACUCGAGU CUGAUGAG	GCCGUUAGGC	CGAA IUCGUGC	28707
3160	7870	GACCAACC A UCUCAGUU	10333	AACUGAGA CUGAUGAG	GCCGUUAGGC	CGAA ICGUGGUC	28708
3163	7867	CAGCAUC U CAGUUUUG	10334	CAAAACUG CUGAUGAG	GCCGUUAGGC	CGAA IAUGGCUG	28709
3165	7865	GCCAUCUC A GUUUUGCU	10335	AGCAAAAC CUGAUGAG	GCCGUUAGGC	CGAA IAGAUGGC	28710
3173	7857	AGUUUUGC U GUGCCCU	10336	AGGGGCAC CUGAUGAG	GCCGUUAGGC	CGAA ICAAAACU	28711
3178	7852	UGCUGUC C CCUAGAGA	10337	UCUCUAGG CUGAUGAG	GCCGUUAGGC	CGAA ICACAGCA	28712
3179	7851	GCUGUGCC C CUAGAGAC	10338	GUCUCUAG CUGAUGAG	GCCGUUAGGC	CGAA IGCACAGC	28713
3180	7850	CUGUGCCC C UAGAGACU	10339	AGUCUCUA CUGAUGAG	GCCGUUAGGC	CGAA IGGCAGC	28714
3181	7849	UGUGCCCC U AGAGACUG	10340	CAGUCUCU CUGAUGAG	GCCGUUAGGC	CGAA IGGCACAC	28715
3188	7842	CUAGAGAC U GGAUGCCC	10341	GGGCAUCC CUGAUGAG	GCCGUUAGGC	CGAA IUCUCUAG	28716
3195	7835	CUGGAUGC C CUCCAGUG	10342	CACUGGAG CUGAUGAG	GCCGUUAGGC	CGAA ICAUCCAG	28717
3196	7834	UGGAUGCC C UCCAGUGA	10343	UCACUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGCAUCCA	28718
3197	7833	GGAUGCCC U CCAGUGAC	10344	GUCACUGG CUGAUGAG	GCCGUUAGGC	CGAA IGGCAUCC	28719
3199	7831	AUGCCCU C AGUGACAU	10345	AUGUCACU CUGAUGAG	GCCGUUAGGC	CGAA IAGGGCAU	28720
3200	7830	UGCCCUCC A GUGACAUU	10346	AAUGUCAC CUGAUGAG	GCCGUUAGGC	CGAA IAGGGGCA	28721
3206	7824	CCAGUGAC A UUGCCUUC	10347	GAAGGCAA CUGAUGAG	GCCGUUAGGC	CGAA IUCACUGG	28722
3211	7819	GACAUUGC C UUCUUUC	10348	GGAAAGAA CUGAUGAG	GCCGUUAGGC	CGAA ICAAUGUC	28723
3212	7818	ACAUUGCC U UCUUUCU	10349	AGGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA IGCAAUGU	28724
3215	7815	UUGCCUUC U UUCUGGC	10350	GCCAGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAAGGCAA	28725
3219	7811	CUUCUUUC C UGGCGUGU	10351	ACACGCCA CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAAG	28726
3220	7810	UUCUUUC U GCGUGUU	10352	AACACGCC CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAGAA	28727
3233	7797	UGUUUUGC C GCUGAGCG	10353	CGCUCAGC CUGAUGAG	GCCGUUAGGC	CGAA ICAAAACA	28728
3236	7794	UUUGCCG C GAGCGAUC	10354	GAUCGCUC CUGAUGAG	GCCGUUAGGC	CGAA ICGGCAAA	28729
3248	7782	CGAUCGAC U UCGAUGAU	10355	AUCAUGA CUGAUGAG	GCCGUUAGGC	CGAA IUCAUGC	28730
3260	7770	AUGAUGGC C UCUGGCG	10356	CGCAAAGA CUGAUGAG	GCCGUUAGGC	CGAA IUCAUCAU	28731
3261	7769	UGAUGGCC U CUUUGCGG	10357	CCGCAAAG CUGAUGAG	GCCGUUAGGC	CGAA IGCAUCA	28732
3263	7767	AUGGCCUC U UUGCGGUA	10358	UACCGCAA CUGAUGAG	GCCGUUAGGC	CGAA IAGGCCAU	28733
3273	7757	UGCGGUAC C UAGUGAAC	10359	GUUCACUA CUGAUGAG	GCCGUUAGGC	CGAA IUACCGCA	28734
3274	7756	GCGGUACC U AGUGAACU	10360	AGUUCACU CUGAUGAG	GCCGUUAGGC	CGAA IGUACCGC	28735

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3282	7748	UAGUGAAC U CUUCUUUU	10361	AAAAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IUUCACUA	28736
3284	7746	GUGAACUC U UCUUUUGU	10362	ACAAAAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGUUCAC	28737
3287	7743	AACUCUUC U UUUGUCAU	10363	AUGACAAA CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAGU	28738
3294	7736	CUUUUGUC A UCUGGUUG	10364	CAACCAGA CUGAUGAG	GCCGUUAGGC	CGAA IACAAAAG	28739
3297	7733	UUGUCAUC U GGUUGAGU	10365	ACUCAACC CUGAUGAG	GCCGUUAGGC	CGAA IAUGACAA	28740
3307	7723	GUUGAGUC U UUCUUUCC	10366	GGAAAGAA CUGAUGAG	GCCGUUAGGC	CGAA IACUCAAC	28741
3311	7719	AGUCUUUC U UUCCAAAC	10367	GUUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAAAGACU	28742
3315	7715	UUUCUUUC C AAACCUCU	10368	AGAGGUUU CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAAA	28743
3316	7714	UUCUUUCC A AACCUCUC	10369	GAGAGGUU CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAA	28744
3320	7710	UUCCAAAC C UCUCCAA	10370	UUUGGAGA CUGAUGAG	GCCGUUAGGC	CGAA IUUUGGAA	28745
3321	7709	UCCAAACC U CUCCAAAG	10371	CUUGGGAG CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGA	28746
3323	7707	CAAACCUC U CCCAAGGU	10372	ACCUUGGG CUGAUGAG	GCCGUUAGGC	CGAA IAGGUUUG	28747
3325	7705	AACCUCUC C CAAGGUGC	10373	GCACCUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGUU	28748
3326	7704	ACCUCUCC C AAGGUGCG	10374	CGCACCUU CUGAUGAG	GCCGUUAGGC	CGAA IGAGAGGU	28749
3327	7703	CCUCUCCC A AGGUGCGU	10375	ACGCACCU CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAGG	28750
3337	7693	GGUGCGUC C UUUUGCCC	10376	GGGCAAAA CUGAUGAG	GCCGUUAGGC	CGAA IACGCACC	28751
3338	7692	GUGCGUCC U UUUGCCCC	10377	GGGGCAAA CUGAUGAG	GCCGUUAGGC	CGAA IGACGCAC	28752
3344	7686	CCUUUUGC C CCACCUU	10378	AGAGGUGG CUGAUGAG	GCCGUUAGGC	CGAA ICAAAAGG	28753
3345	7685	CUUUUGCC C CACCUCUU	10379	AAGAGGUG CUGAUGAG	GCCGUUAGGC	CGAA IGGCAAAA	28754
3346	7684	UUUUUGCC C ACCUCUUU	10380	AAAGAGGU CUGAUGAG	GCCGUUAGGC	CGAA IGGGCAAA	28755
3347	7683	UUUGCCCC A CCUCUUUU	10381	AAAAGAGG CUGAUGAG	GCCGUUAGGC	CGAA IUGGGGCA	28756
3349	7681	UGCCCCAC C UCUUUUUA	10382	UAAAAAGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGGGGC	28757
3350	7680	GCCCCACC U CUUUUAG	10383	CUAAAAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGGUGGG	28758
3352	7678	CCCACCUC U UUUUAGUC	10384	GACUAAAA CUGAUGAG	GCCGUUAGGC	CGAA IACUAAAA	28759
3361	7669	UUUUAGUC C UGGUUUUU	10385	AAAAACCA CUGAUGAG	GCCGUUAGGC	CGAA IGAACUAA	28760
3362	7668	UUUAGUCC U GGUUUUUC	10386	GAAAAACC CUGAUGAG	GCCGUUAGGC	CGAA IGAACUAA	28761
3371	7659	GGUUUUUC C AUGUUCUU	10387	AAGAACAU CUGAUGAG	GCCGUUAGGC	CGAA IAAAAACC	28762
3372	7658	GUUUUUCC A UGUUCUUU	10388	AAAGAACA CUGAUGAG	GCCGUUAGGC	CGAA IGAACUAA	28763
3378	7652	CCAUGUUC U UUAUGAGU	10389	ACUCAUAA CUGAUGAG	GCCGUUAGGC	CGAA IAAACUUG	28764
3390	7640	UGAGUGUC C AUGUUUUG	10390	CAUAAACU CUGAUGAG	GCCGUUAGGC	CGAA IACACUCA	28765
3391	7639	GAGUGUCC A UGUUAUGG	10391	CCAUAACA CUGAUGAG	GCCGUUAGGC	CGAA IGACACUC	28766
3406	7624	GGAUAGAC A UGACAACC	10392	GGUUGUCA CUGAUGAG	GCCGUUAGGC	CGAA IUCUAUCC	28767
3411	7619	GACAUGAC A ACCAACCC	10393	GGGUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IUCAUGUC	28768
3414	7616	AUGACAAC C AACCCCCA	10394	UGGGGGUU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCAU	28769
3415	7615	UGACAACC A ACCCCAC	10395	GUGGGGGU CUGAUGAG	GCCGUUAGGC	CGAA IGUUGUCA	28770
3418	7612	CAACCAAC C CCCACGCA	10396	UGCGUGGG CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUUG	28771
3419	7611	AACCAACC C CCACGCAU	10397	AUGCGUGG CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGUU	28772
3420	7610	ACCAACCC C CACGCAUG	10398	CAUGCGUG CUGAUGAG	GCCGUUAGGC	CGAA IGGUUGGU	28773
3421	7609	CCAACCCC C ACGCAUGA	10399	UCAUGCGU CUGAUGAG	GCCGUUAGGC	CGAA IGGGUUGG	28774
3422	7608	CAACCCC A CGCAUGAU	10400	AUCAUGCG CUGAUGAG	GCCGUUAGGC	CGAA IGGGGUUG	28775
3426	7604	CCCCACG A UGAUGUGG	10401	CCACAUGA CUGAUGAG	GCCGUUAGGC	CGAA ICCUGGGG	28776
3436	7594	GAUGUGGC A GAGUCCGA	10402	UCGGACUC CUGAUGAG	GCCGUUAGGC	CGAA ICCACUUC	28777
3442	7588	GCAGAGUC C GAUGGCAG	10403	CUGCCAUC CUGAUGAG	GCCGUUAGGC	CGAA IACUCUGC	28778
3449	7581	CCGAUGGC A GUUGUUGC	10404	GCAACAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCAUCGG	28779
3462	7568	UUGCGUUC C AAACAGAG	10405	CUCUGUUU CUGAUGAG	GCCGUUAGGC	CGAA IAACGCAA	28780
3463	7567	UGCGUUC A AACAGAGC	10406	GCUCUGUU CUGAUGAG	GCCGUUAGGC	CGAA IGAACGCA	28781
3467	7563	UUCCAAAC A GAGCUUGC	10407	GCAAGCUC CUGAUGAG	GCCGUUAGGC	CGAA IUUUGGAA	28782
3472	7558	AACAGAGC U UGCUCCAU	10408	AUGGAGCA CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGUU	28783
3476	7554	GAGCUUGC U CCAUUCUC	10409	GAGAAUGG CUGAUGAG	GCCGUUAGGC	CGAA ICAAGCUC	28784
3478	7552	GUUGUCUC C AUUCUCCC	10410	GGGAGAAU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAAGC	28785
3479	7551	CUUGCUCC A UUCUCCCA	10411	UGGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA IGAGCAAG	28786
3483	7547	CUCCAUCU U CCAAAGC	10412	GCUUUGGG CUGAUGAG	GCCGUUAGGC	CGAA IAAUGGAG	28787
3485	7545	CAUUCUC C CAAAGCGU	10413	ACGCUUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUGG	28788
3486	7544	CAUUCUCC C AAAGCGUC	10414	GACGCUUU CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAUG	28789
3487	7543	AUUCUCCC A AAGCGUCA	10415	UGACGCUU CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAAU	28790
3495	7535	AAAGCGUC A CCGCUGCG	10416	CGCAGCGG CUGAUGAG	GCCGUUAGGC	CGAA IACGCUUU	28791
3497	7533	AGCGUCAC C GCUGCGGC	10417	GCCGCAGC CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCGU	28792
3500	7530	GUACCGGC U GCGGCCGU	10418	ACGGCCGC CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGAC	28793
3506	7524	GCUGCGGC C GUGAUCAA	10419	UUGAUCAC CUGAUGAG	GCCGUUAGGC	CGAA ICCGAGC	28794
3513	7517	CGUGAUC A AAUUCGG	10420	CGGAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IAUCACGG	28795
3520	7510	CAAAUUC C GGCUCUC	10421	GAGAAGCC CUGAUGAG	GCCGUUAGGC	CGAA IAAUUUUG	28796

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3524	7506	AUCCCGGC U UCUCGUAC	10422	GUACGAGA CUGAUGAG	GCCGUUAGGC	CGAA	ICCGGAU	28797
3527	7503	CCGGCUUC U CGUACUQU	10423	ACAGUACG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGCCGG	28798
3533	7497	UCUCGUAC U GUCUUCAC	10424	GUGAAGAC CUGAUGAG	GCCGUUAGGC	CGAA	IUACGAGA	28799
3537	7493	GUACUGUC U UCACAGAC	10425	GUCUGUGA CUGAUGAG	GCCGUUAGGC	CGAA	IACAGUAC	28800
3540	7490	CUGUCUUC A CAGACGGG	10426	CCCGUCUG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGACAG	28801
3542	7488	GUCUUCAC A GACGGGUU	10427	AACCCGUC CUGAUGAG	GCCGUUAGGC	CGAA	IUGAAGAC	28802
3552	7478	ACGGGUUC A CUACUACU	10428	AGUAGUAG CUGAUGAG	GCCGUUAGGC	CGAA	IAACCCGU	28803
3554	7476	GGGUUCAC U ACUACUGC	10429	GCAGUAGU CUGAUGAG	GCCGUUAGGC	CGAA	IUGAACCC	28804
3557	7473	UUCACUAC U ACUGCAGC	10430	GCUGCAGU CUGAUGAG	GCCGUUAGGC	CGAA	IUAGUGAA	28805
3560	7470	ACUACUAC U GCAGCUAG	10431	CUAGCUGC CUGAUGAG	GCCGUUAGGC	CGAA	IUAGUAGU	28806
3563	7467	ACUACUGC A GCUAGAGA	10432	UCUCUAGC CUGAUGAG	GCCGUUAGGC	CGAA	IACAGUAGU	28807
3566	7464	ACUGCAGC U AGAGACAC	10433	GUGUCUCU CUGAUGAG	GCCGUUAGGC	CGAA	ICUCGAGU	28808
3573	7457	CUAGAGAC A CCAAGAUC	10434	GAUCUUGG CUGAUGAG	GCCGUUAGGC	CGAA	IUCUCUAG	28809
3575	7455	AGAGACAC C AAGAUCAG	10435	CUGAUCUU CUGAUGAG	GCCGUUAGGC	CGAA	IUGUCUCU	28810
3576	7454	GAGACACC A AGAUCAGC	10436	GCUGAUCU CUGAUGAG	GCCGUUAGGC	CGAA	IGUGUCUC	28811
3582	7448	CCAAGAUC A GCAUGAUC	10437	GAUCAUGC CUGAUGAG	GCCGUUAGGC	CGAA	IAUCUUGG	28812
3585	7445	AGAUCAGC A UGAUCUGU	10438	ACAGAUAU CUGAUGAG	GCCGUUAGGC	CGAA	ICUGAUCU	28813
3591	7439	GCAUGAUC U GUCCAACU	10439	AGUUGGAC CUGAUGAG	GCCGUUAGGC	CGAA	IAUCAUGC	28814
3595	7435	GAUCUGUC C AACUUUCU	10440	AGAAAGUU CUGAUGAG	GCCGUUAGGC	CGAA	IACAGUAC	28815
3596	7434	AUCUGUCC A ACUUUCUU	10441	AAGAAAGU CUGAUGAG	GCCGUUAGGC	CGAA	IGACAGAU	28816
3599	7431	UGUCCAAC U UUCUUCUG	10442	CAGAAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGACA	28817
3603	7427	CAACUUUC U UCUGCAUG	10443	CAUGCAGA CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGUUG	28818
3606	7424	CUUCUUC U GCAUGAUG	10444	CAUCAUGC CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAAAG	28819
3609	7421	UCUUCUGC A UGAUGGGU	10445	ACCCAUCA CUGAUGAG	GCCGUUAGGC	CGAA	ICAGAAGA	28820
3627	7403	UGGUGCGC U CUAUUUCU	10446	AGAAUJAG CUGAUGAG	GCCGUUAGGC	CGAA	ICGCACCA	28821
3629	7401	GUGCGCUC U AAUUCUGG	10447	CCAGAAUU CUGAUGAG	GCCGUUAGGC	CGAA	IAGCGCAC	28822
3635	7395	UCUAAUUC U GGGACGUC	10448	GACGUCCC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUAGA	28823
3644	7386	GGGACGUC C GUGGCCAC	10449	GUGGCCAC CUGAUGAG	GCCGUUAGGC	CGAA	IACGUCCC	28824
3650	7380	UCCGUGGC C ACGAUGCC	10450	GGCAUCGU CUGAUGAG	GCCGUUAGGC	CGAA	ICCACGGA	28825
3651	7379	CCGUGGCC A CGAUGCCA	10451	UGGCAUCG CUGAUGAG	GCCGUUAGGC	CGAA	IGCCACGG	28826
3658	7372	CACGAUGC C AUCCACUA	10452	UAGUGGAU CUGAUGAG	GCCGUUAGGC	CGAA	ICAUUCUG	28827
3659	7371	ACGAUGCC A UCCACUAC	10453	GUAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA	IGCAUCGU	28828
3662	7368	AUGCCAUC C ACUACAGC	10454	GCUGUAGU CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGCAU	28829
3663	7367	UGCCAUC C CUACAGCG	10455	CGCUGUAG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGUGCA	28830
3665	7365	CCAUCCAC U ACAGCGUU	10456	AACGCUGU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAUGG	28831
3668	7362	UCCACUAC A GCGUUCUU	10457	AAGAACGC CUGAUGAG	GCCGUUAGGC	CGAA	IUAGUGGA	28832
3675	7355	CAGCGUUC U UCAUGAUU	10458	AAUCAUGA CUGAUGAG	GCCGUUAGGC	CGAA	IAACGCUG	28833
3678	7352	CGUUCUUC A UGAUCCG	10459	CGGAAUCA CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAACG	28834
3685	7345	CAUGAUUC C GGCCGUG	10460	CAGCGGCC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUCAUG	28835
3689	7341	AUCCCGGC C CGUGUCCG	10461	CGGACAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICCGGAU	28836
3692	7338	CCGGCCGC U GUCCGCG	10462	CGGCGGAC CUGAUGAG	GCCGUUAGGC	CGAA	ICGGCCGG	28837
3696	7334	CCGCGUUC C GCCGUGG	10463	CCAGCGGC CUGAUGAG	GCCGUUAGGC	CGAA	IACAGCGG	28838
3699	7331	CUGUCCGC C GCUGGGCU	10464	AGCCAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICGACAG	28839
3702	7328	UCCGCCGC U GGGCUGAG	10465	CUCAGCCC CUGAUGAG	GCCGUUAGGC	CGAA	ICGGCGGA	28840
3707	7323	CGCUGGGC U GAGCGCAU	10466	AUGCGCUC CUGAUGAG	GCCGUUAGGC	CGAA	ICCCAGCG	28841
3714	7316	CUGAGCGC A UUGCCUCA	10467	UGAGCAA CUGAUGAG	GCCGUUAGGC	CGAA	ICGCUCAG	28842
3719	7311	CGCAUUGC C UCAGCUUG	10468	CAAGCUGA CUGAUGAG	GCCGUUAGGC	CGAA	ICAAUGCG	28843
3720	7310	GCAUUGCC U CAGCUUGC	10469	GCAAGCUG CUGAUGAG	GCCGUUAGGC	CGAA	IGCAAUGC	28844
3722	7308	AUUGCCUC A GCUUGCCA	10470	UGGCAAGC CUGAUGAG	GCCGUUAGGC	CGAA	IAGGCAAU	28845
3725	7305	GCCUCAGC U UGCCAAC	10471	GGUUGGCA CUGAUGAG	GCCGUUAGGC	CGAA	ICUGAGGC	28846
3729	7301	CAGCUUGC C AACCGGA	10472	UCCCGGUU CUGAUGAG	GCCGUUAGGC	CGAA	ICAAGCUG	28847
3730	7300	AGCUUGCC A ACCGGAA	10473	UUCGCGGU CUGAUGAG	GCCGUUAGGC	CGAA	IGCAAGCU	28848
3733	7297	UUGCCAAC C GGGAAACA	10474	UGGUUCCC CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGCAA	28849
3740	7290	CCGGGAAC C AUGUAGGC	10475	GCCUACAU CUGAUGAG	GCCGUUAGGC	CGAA	IUUCGCGG	28850
3741	7289	CGGGAACC A UGUAGGCA	10476	UGCCUACA CUGAUGAG	GCCGUUAGGC	CGAA	IGUUCGCG	28851
3749	7281	AUGUAGGC A UAGUGGCA	10477	UGCCACUA CUGAUGAG	GCCGUUAGGC	CGAA	ICCUACAU	28852
3757	7273	AUAGUGGC A AAAAAGGA	10478	UCCUUUUU CUGAUGAG	GCCGUUAGGC	CGAA	ICCAUAU	28853
3773	7257	AGUGUUGC C GCUGUAC	10479	GUAACAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICAAACAU	28854
3776	7254	GUUGCCGC U GUUACCGU	10480	ACGGUAA CUGAUGAG	GCCGUUAGGC	CGAA	ICGGCAAC	28855
3782	7248	GCUGUUC C GUAACGGU	10481	ACCGUUA CUGAUGAG	GCCGUUAGGC	CGAA	IUAACAGC	28856
3800	7230	AGGGUGAC U UGUCCCCA	10482	UGGGGACA CUGAUGAG	GCCGUUAGGC	CGAA	IUCACCCU	28857

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3805	7225	GACUUGUC C CCAGCAUC	10483	GAUGCUGG CUGAUGAG	GCCGUUAGGC	CGAA IACAAGUC	28858
3806	7224	ACUUGUCC C CAGCAUCC	10484	GGAUGCUG CUGAUGAG	GCCGUUAGGC	CGAA IGACAAGU	28859
3807	7223	CUUGUCCC C AGCAUCCG	10485	CGGAUGCU CUGAUGAG	GCCGUUAGGC	CGAA IGGACAAG	28860
3808	7222	UUGUCCCC A GCAUCCGG	10486	CCGAUGC CUGAUGAG	GCCGUUAGGC	CGAA IGGACAA	28861
3811	7219	UCCCCAGC A UCCGGCUG	10487	CAGCCGGA CUGAUGAG	GCCGUUAGGC	CGAA ICUGGGGA	28862
3814	7216	CCAGCAUC C GGCUGCUA	10488	UAGCAGCC CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUGG	28863
3818	7212	CAUCCGGC U GCUAGCAG	10489	CUGCUAGC CUGAUGAG	GCCGUUAGGC	CGAA ICCGGAUG	28864
3821	7209	CCGGCUGC U AGCAGGAG	10490	CUCCUGCU CUGAUGAG	GCCGUUAGGC	CGAA ICAGCCGG	28865
3825	7205	CUGCUAGC A GGAGAGCC	10491	GGCUCUCC CUGAUGAG	GCCGUUAGGC	CGAA ICUAGCAG	28866
3833	7197	AGGAGAGC C GACACUCC	10492	GGAGUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCU	28867
3837	7193	GAGCCGAC A CUCCAACA	10493	UGUUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUCCGGCUC	28868
3839	7191	GCCGACAC U CCAACAUC	10494	GAUGUUGG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCGGC	28869
3841	7189	CGACACUC C AACAUCCA	10495	UCGAUGUU CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUCG	28870
3842	7188	GACACUCC A ACAUCGAC	10496	GUCGAUGU CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGUC	28871
3845	7185	ACUCCAAC A UCGACGAA	10497	UUCGUCGA CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAGU	28872
3862	7168	GGGGAAGC C UCGCGCGA	10498	UCGCGCGA CUGAUGAG	GCCGUUAGGC	CGAA ICUUCCCC	28873
3863	7167	GGGAAGCC U CGCGCGAG	10499	CUCGCGCG CUGAUGAG	GCCGUUAGGC	CGAA IGCUUCCC	28874
3884	7146	AAUAGUGC A CUUGCCUG	10500	CAGGCAAG CUGAUGAG	GCCGUUAGGC	CGAA ICACUAUU	28875
3886	7144	UAGUCGAC U UGCCUGAA	10501	UUCAGGCA CUGAUGAG	GCCGUUAGGC	CGAA IUGACUA	28876
3890	7140	GCACUUGC C UGAACGUU	10502	AACGUUCA CUGAUGAG	GCCGUUAGGC	CGAA ICAAGUGC	28877
3891	7139	CACUUGCC U GAACGUUU	10503	AAACGUUC CUGAUGAG	GCCGUUAGGC	CGAA IGCAAGUG	28878
3909	7121	UUGAGGUC A AUGAGGUG	10504	CACCUCAU CUGAUGAG	GCCGUUAGGC	CGAA IACCUCAA	28879
3929	7101	AUGUAUUC U GACGUGAU	10505	AUCACGUC CUGAUGAG	GCCGUUAGGC	CGAA IAUUACAU	28880
3939	7091	ACGUGAUC A AAUGCUUU	10506	AAAGCAU CUGAUGAG	GCCGUUAGGC	CGAA IAUACAGU	28881
3945	7085	UCAAAUGC U UUAGCAGU	10507	ACUGCUAA CUGAUGAG	GCCGUUAGGC	CGAA ICAUUUGA	28882
3951	7079	GCUUUAGC A GUGAGUG	10508	CACUCCAC CUGAUGAG	GCCGUUAGGC	CGAA ICUAAGC	28883
3965	7065	GUGAGGAC C GCUGUGU	10509	ACAACAGC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCAC	28884
3968	7062	AGGACCGC U GUUGUCAC	10510	GUGACAAC CUGAUGAG	GCCGUUAGGC	CGAA ICGGUCCU	28885
3975	7055	CUGUUGUC A CAGCGUAC	10511	GUACGCUG CUGAUGAG	GCCGUUAGGC	CGAA IACAACAG	28886
3977	7053	GUUGUCAC A GCGUACAG	10512	CUGUACGC CUGAUGAG	GCCGUUAGGC	CGAA IUGACAAC	28887
3984	7046	CAGCGUAC A GUGACCAG	10513	CUGGUCAC CUGAUGAG	GCCGUUAGGC	CGAA IUACGCUG	28888
3990	7040	ACAGUGAC C AGGCUGUU	10514	AACAGCCU CUGAUGAG	GCCGUUAGGC	CGAA IUACUGU	28889
3991	7039	CAGUGACC A GGCUGUUG	10515	CAACAGCC CUGAUGAG	GCCGUUAGGC	CGAA IUGACUG	28890
3995	7035	GACCAAGC U GUUGCCGG	10516	CCGCAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCUGGUC	28891
4001	7029	GCUGUUGC C GGCCUCAA	10517	UUGAGGCC CUGAUGAG	GCCGUUAGGC	CGAA ICAACAGC	28892
4005	7025	UUGCCGGC C UCAAGUCC	10518	GGACUUGA CUGAUGAG	GCCGUUAGGC	CGAA ICCGGCAA	28893
4006	7024	UGCCGGCC U CAAGUCCA	10519	UGGACUUG CUGAUGAG	GCCGUUAGGC	CGAA IGCGGCA	28894
4008	7022	CCGGCCUC A AGUCCAAA	10520	UUUGGACU CUGAUGAG	GCCGUUAGGC	CGAA IAGGCCGG	28895
4013	7017	CUCAGUC C AAAAGAAA	10521	UUUCUUUU CUGAUGAG	GCCGUUAGGC	CGAA IACUUGAG	28896
4014	7016	UCAAGUCC A AAAGAAAC	10522	GUUUCUUU CUGAUGAG	GCCGUUAGGC	CGAA IGACUUGA	28897
4023	7007	AAAGAAAC U CUCCCAUG	10523	CAUGGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUUUCUUU	28898
4025	7005	AGAAACUC U CCAUUCU	10524	AGCAUGGG CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUUU	28899
4027	7003	AAACUCUC C CAUGCUGA	10525	UCAGCAUG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUUU	28900
4028	7002	AACUCUCC C AUGCUGAA	10526	UUCAGCAU CUGAUGAG	GCCGUUAGGC	CGAA IGAGAGUU	28901
4029	7001	ACUCUCCC A UGCUGAAA	10527	UUUCAGCA CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAGU	28902
4033	6997	UCCCAUGC U GAAAUUCU	10528	AGAAUUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUGGGA	28903
4041	6989	UGAAAUUC U CCUUGACC	10529	GGUCAAGG CUGAUGAG	GCCGUUAGGC	CGAA IAAUUUCA	28904
4043	6987	AAAUUCUC C UUGACCUC	10530	GAGGUCAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUUU	28905
4044	6986	AAUUCUCC U UGACCUCA	10531	UGAGGUCA CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAUU	28906
4049	6981	UCCUUGAC C UCAAUUCU	10532	AGAAUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUCAAGGA	28907
4050	6980	CCUUGACC U CAAUUCUU	10533	AAGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA IGUCAAGG	28908
4052	6978	UUGACCUC A AUUCUUUG	10534	CAAAGAAU CUGAUGAG	GCCGUUAGGC	CGAA IAGGUCAA	28909
4057	6973	CUCAAUUC U UUGCCCAA	10535	UUGGGCAA CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGAG	28910
4062	6968	UUCUUUGC C CAAACAAA	10536	UUUGUUUG CUGAUGAG	GCCGUUAGGC	CGAA ICAAAGAA	28911
4063	6967	UCUUUGCC C AAACAAAC	10537	GUUUUUUU CUGAUGAG	GCCGUUAGGC	CGAA IGCAAAGA	28912
4064	6966	CUUUGCCC A AACAAACU	10538	AGUUUUUU CUGAUGAG	GCCGUUAGGC	CGAA IGGCAAAG	28913
4068	6962	GCCCAAAC A AACUGCUU	10539	AAGCAGUU CUGAUGAG	GCCGUUAGGC	CGAA IUUUGGGC	28914
4072	6958	AAACAAAC U GCUUAUGU	10540	ACAUAAAGC CUGAUGAG	GCCGUUAGGC	CGAA IUUUGUUU	28915
4075	6955	CAAACUGC U UAUGUCAC	10541	GUGACAU CUGAUGAG	GCCGUUAGGC	CGAA ICAGUUUG	28916
4082	6948	CUUAUGUC A CUCUUGGU	10542	ACCAAGAG CUGAUGAG	GCCGUUAGGC	CGAA IACAUAG	28917
4084	6946	UAUGUCAC U CUUGGUCU	10543	AGACCAAG CUGAUGAG	GCCGUUAGGC	CGAA IUGACAU	28918

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4086	6944	UGUCACUC U UGGUCUUA	10544	UAAGACCA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGACA	28919
4092	6938	UCUUGGUC U UAUUAGC	10545	GCUAGAU CUGAUGAG	GCCGUUAGGC	CGAA IACCAAGA	28920
4097	6933	GUCUUAUC U AGCCAACC	10546	GGUUGGCU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGAC	28921
4101	6929	UAUCUAGC C AACCCAUC	10547	GAUGGGU CUGAUGAG	GCCGUUAGGC	CGAA ICUAGAU	28922
4102	6928	AUCUAGCC A ACCCAUCU	10548	AGAUGGGU CUGAUGAG	GCCGUUAGGC	CGAA IGCUGAU	28923
4105	6925	UAGCCAAC C CAUCUCGU	10549	ACGAGAUG CUGAUGAG	GCCGUUAGGC	CGAA IUUGGCUA	28924
4106	6924	AGCCAACC C AUCUCGUU	10550	AACGAGAU CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGCU	28925
4107	6923	GCCAACCC A UCUCGUUG	10551	CAACGAGA CUGAUGAG	GCCGUUAGGC	CGAA IGGUUGGC	28926
4110	6920	AACCCAUC U CGUUGGCU	10552	AGCCAACG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGCU	28927
4118	6912	UCGUUGGC U GCCACUGC	10553	GCAGUGGC CUGAUGAG	GCCGUUAGGC	CGAA ICCAACA	28928
4121	6909	UUGGUGC C ACUGGCGU	10554	AGCGCAGU CUGAUGAG	GCCGUUAGGC	CGAA ICAGCCAA	28929
4122	6908	UUGGUGCC A CUGGCGUC	10555	GAGCGCAG CUGAUGAG	GCCGUUAGGC	CGAA IGCAGCCA	28930
4124	6906	GCUGCCAC U GCGCUCAC	10556	GUGAGCGC CUGAUGAG	GCCGUUAGGC	CGAA IUGGCAGC	28931
4129	6901	CACUGGCG U CACAAGGG	10557	CCCUUGUG CUGAUGAG	GCCGUUAGGC	CGAA ICGCAGUG	28932
4131	6899	CUGGCGUC A CAAGGGUC	10558	GACCCUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGCGCAG	28933
4133	6897	GCGCUCAC A AGGUCAU	10559	AUGACCCU CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCGC	28934
4140	6890	CAAGGGUC A UGACACAA	10560	UUGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA IACCCUUG	28935
4145	6885	GUCAUGAC A CAAUUCAG	10561	CGAUUUG CUGAUGAG	GCCGUUAGGC	CGAA IUCAUGAC	28936
4147	6883	GAUGACAC A AAUCAGGA	10562	UCCUGAUU CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAUG	28937
4152	6878	CACAAUUC A GGAACACG	10563	CGUGUUC CUGAUGAG	GCCGUUAGGC	CGAA IAUUUGUG	28938
4158	6872	UCAGGAAC A CGGCUAGC	10564	GCUAGCCG CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUGA	28939
4163	6867	AACACGGC U AGCUGGUU	10565	AACCAGCU CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGUU	28940
4167	6863	CGGCUAGC U GGUUGUCU	10566	AGACAACC CUGAUGAG	GCCGUUAGGC	CGAA ICUAGCCG	28941
4175	6855	UGGUUGUC U GUCUGCGA	10567	UCGAGAC CUGAUGAG	GCCGUUAGGC	CGAA IACAACCA	28942
4179	6851	UGUCUGUC U GCGAACGU	10568	ACGUUCGC CUGAUGAG	GCCGUUAGGC	CGAA IACAGACA	28943
4191	6839	AACGUUGC U UCUCUGGC	10569	GCCAGAGA CUGAUGAG	GCCGUUAGGC	CGAA ICAACGUU	28944
4194	6836	GUUGCUUC U CUGGCUCA	10570	UGAGCCAG CUGAUGAG	GCCGUUAGGC	CGAA IAAGCAAC	28945
4196	6834	UGCUUCUC U GGCUCAGG	10571	CCUGAGCC CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGCA	28946
4200	6830	UCUCUGGC U CAGGAUUU	10572	AAUUCUG CUGAUGAG	GCCGUUAGGC	CGAA ICCAGAGA	28947
4202	6828	UCUGGUCU A GGAAUAG	10573	CUAAUUC CUGAUGAG	GCCGUUAGGC	CGAA IAGCCAGA	28948
4212	6818	GAUUUAGC A CAAUCAUC	10574	GAUGAUUG CUGAUGAG	GCCGUUAGGC	CGAA ICUAUUC	28949
4214	6816	AUUAGCAC A AUCAUCA	10575	UUGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUGCUAAU	28950
4218	6812	GCACAAUC A UCAAGAGA	10576	CCUCUUGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUGC	28951
4221	6809	GAUCAUC A AGAGAAGG	10577	UCUUCUCU CUGAUGAG	GCCGUUAGGC	CGAA IUAUUG	28952
4236	6794	GGGAGAGC A CCAACAUU	10578	AAUGUUGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCCC	28953
4239	6791	AGAGCAGC A ACAUCCG	10579	CGGAAUGU CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCU	28954
4242	6788	GCAGCAAC A UUCGCGC	10580	CGCCGGA CUGAUGAG	GCCGUUAGGC	CGAA IUUGCUGC	28955
4246	6784	CAACAUUC C GGCGAUCU	10581	AGAUCGCC CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUUG	28956
4254	6776	CGGCGAUC U UCGUCCU	10582	AGGAACGA CUGAUGAG	GCCGUUAGGC	CGAA IAUCCCG	28957
4261	6769	CUUCGUUC C UGGAACUU	10583	AAGUCCA CUGAUGAG	GCCGUUAGGC	CGAA IAAACGA	28958
4262	6768	UUCGUUUC U GGAACUUC	10584	GAGGUUC CUGAUGAG	GCCGUUAGGC	CGAA IUAACGA	28959
4268	6762	CCUGGAAC U UCAGCAU	10585	AUGGUGA CUGAUGAG	GCCGUUAGGC	CGAA IUUCCAGG	28960
4271	6759	GGAACUUC A GCCAUCCA	10586	UGGAUGGC CUGAUGAG	GCCGUUAGGC	CGAA IAAGUUC	28961
4274	6756	ACUUCAGC C AUCCAACA	10587	UGUUGGAU CUGAUGAG	GCCGUUAGGC	CGAA ICUGAAGU	28962
4275	6755	CUUCAGCC A UCCAACAG	10588	CUGUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGCUGAAG	28963
4278	6752	CAGCAUC C AACAGAAA	10589	UUUCUGUU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGCU	28964
4279	6751	AGCCAUC C ACAGAAA	10590	UUUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGCU	28965
4282	6748	CAUCCAAC A GAAAAGG	10591	CCUUUUUC CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAU	28966
4298	6732	GUCGCGAC U CCAAGAC	10592	GUCUUGG CUGAUGAG	GCCGUUAGGC	CGAA IUCGCGAC	28967
4300	6730	CGGACUC C CAAGACAG	10593	CUGUCUG CUGAUGAG	GCCGUUAGGC	CGAA IAGUCGCG	28968
4301	6729	GCGACUCC C AAGACAGC	10594	GCUGUCU CUGAUGAG	GCCGUUAGGC	CGAA IGAGUCGC	28969
4302	6728	CGACUCCC A AGACAGCG	10595	CGCUGUCU CUGAUGAG	GCCGUUAGGC	CGAA IGGAGUCG	28970
4307	6723	CCAAGAC A GCGCUCC	10596	GGAGCGC CUGAUGAG	GCCGUUAGGC	CGAA IUCUUGG	28971
4312	6718	GACAGCGC C UCCCAAAC	10597	GUUUGGA CUGAUGAG	GCCGUUAGGC	CGAA ICGCUGUC	28972
4313	6717	ACAGCGCC U CCAAACC	10598	GGUUGGG CUGAUGAG	GCCGUUAGGC	CGAA IGCUCUGU	28973
4315	6715	AGCGCCUC C CAAACCUA	10599	UAGGUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGGCGCU	28974
4316	6714	GCGCCUCC C AAACCUAU	10600	UAAGGUU CUGAUGAG	GCCGUUAGGC	CGAA IAGGCGC	28975
4317	6713	GCCUCCC A AACTUUC	10601	GAUAGGU CUGAUGAG	GCCGUUAGGC	CGAA IGGAGCG	28976
4321	6709	UCCCAAAC C UAUUUUC	10602	GAAAGAU CUGAUGAG	GCCGUUAGGC	CGAA IUUUGGGA	28977
4322	6708	CCCAAAC U AUCUUUC	10603	GGAAAGAU CUGAUGAG	GCCGUUAGGC	CGAA IGUUUGG	28978
4326	6704	AACCUAUC U UUCAUG	10604	CAUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAUAGGU	28979

Table IX

4330	6700	UAUCUUUC C AAUGCCCU	10605	AGGGCAU CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGAU	28980
4331	6699	AUCUUUCC A AUGCCCU	10606	AAGGCAU CUGAUGAG	GCCGUUAGGC	CGAA	IGAAAGAU	28981
4336	6694	UCCAAUGC C CUUCCGU	10607	AGCGGAAG CUGAUGAG	GCCGUUAGGC	CGAA	ICAUUGGA	28982
4337	6693	CCAAUGCC C UUCGCGU	10608	CAGCGGAA CUGAUGAG	GCCGUUAGGC	CGAA	IGCAUUGG	28983
4338	6692	CAAUGCCC U UCCGCGU	10609	GCAGCGGA CUGAUGAG	GCCGUUAGGC	CGAA	IGGCAUUG	28984
4341	6689	UGCCCUUC C GCUGCAU	10610	CAUGCAGC CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGGCA	28985
4344	6686	CCUCCGC U GCAUGAG	10611	CCUCAUGC CUGAUGAG	GCCGUUAGGC	CGAA	ICGGAAGG	28986
4347	6683	UCCGCGU A UGAGGAG	10612	CCUCCUCA CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCGGA	28987
4364	6666	AAGAAUAC U CCAUGGU	10613	ACCAUGGG CUGAUGAG	GCCGUUAGGC	CGAA	IUAUUCU	28988
4366	6664	GAUACUC C CAUGGUA	10614	UGACCAU CUGAUGAG	GCCGUUAGGC	CGAA	IAGUAUUC	28989
4367	6663	AAUACUCC C AUGGUCAU	10615	AUGACCAU CUGAUGAG	GCCGUUAGGC	CGAA	IAGUAUUC	28990
4368	6662	AUACUCCC A UGGUCAU	10616	GAUGACCA CUGAUGAG	GCCGUUAGGC	CGAA	IGGAGUAU	28991
4374	6656	CCAUGGUC A UCACACU	10617	GAGUGUGA CUGAUGAG	GCCGUUAGGC	CGAA	IACCAUGG	28992
4377	6653	UGGUCAU A CACUCAA	10618	AUUGAGUG CUGAUGAG	GCCGUUAGGC	CGAA	IAUGACCA	28993
4379	6651	GUCAUCAC A CUCAAUA	10619	UUAUUGAG CUGAUGAG	GCCGUUAGGC	CGAA	IUGAUGAC	28994
4381	6649	CAUCACAC U CAAUAAG	10620	CCUUAUUG CUGAUGAG	GCCGUUAGGC	CGAA	IUGUGAUG	28995
4383	6647	UCACACU A AUAAGGA	10621	UGCCUUAU CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGUGA	28996
4391	6639	AAUAAGGC A AUCAAGG	10622	GCCUUGAU CUGAUGAG	GCCGUUAGGC	CGAA	ICCUUAU	28997
4395	6635	AGGCAUUC A AGGCAAU	10623	AAUUGCCU CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGCCU	28998
4400	6630	AUCAAGGC A AUUGUCU	10624	CAGACAAU CUGAUGAG	GCCGUUAGGC	CGAA	ICCUUGAU	28999
4407	6623	CAAUUGUC U GAAGAGCA	10625	UGCUCUUC CUGAUGAG	GCCGUUAGGC	CGAA	IACAAUUG	29000
4415	6615	UGAAGAGC A UCUGGCAG	10626	CUGCCAGA CUGAUGAG	GCCGUUAGGC	CGAA	ICUCUUA	29001
4418	6612	AGAGCAUC U GGCAGUUC	10627	GAACUGCC CUGAUGAG	GCCGUUAGGC	CGAA	IAUGCUCU	29002
4422	6608	CAUCUGGC A GUUCCUCC	10628	GGAGGAAC CUGAUGAG	GCCGUUAGGC	CGAA	ICCAGAU	29003
4427	6603	GGCAGUUC C UCCAGGG	10629	GCCUGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAACUGCC	29004
4428	6602	GCAGUUC U CCAGGGC	10630	GGCCUGG CUGAUGAG	GCCGUUAGGC	CGAA	IGAACUGC	29005
4430	6600	AGUUCUUC C AGGGCCA	10631	AUGGCCU CUGAUGAG	GCCGUUAGGC	CGAA	IAGGAACU	29006
4431	6599	GUUCCUCC A GGGCCA	10632	AAUGGCC CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGAAC	29007
4436	6594	UCCAGGGC C AUUCUGU	10633	CACAGAAU CUGAUGAG	GCCGUUAGGC	CGAA	ICCCUGGA	29008
4437	6593	CCAGGGCC A UUCUGUGA	10634	UCACAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IGCCUGG	29009
4441	6589	GGCAUUC U GUGAGCUC	10635	GAGCUCAC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUGGCC	29010
4448	6582	CUGUGAGC U CUUCCUCC	10636	GGAGGAAG CUGAUGAG	GCCGUUAGGC	CGAA	ICUCACAG	29011
4450	6580	GUGAGUUC U UCCUCCU	10637	AAGGAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IGAACUAC	29012
4453	6577	AGCUCUUC C UCCUUCU	10638	AGAAAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAGCU	29013
4454	6576	GCUCUUC U CCUUCUC	10639	GAGAAAGG CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGAGC	29014
4456	6574	UCUUCUUC C UUCUCUG	10640	CAGAGAAA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGAAGA	29015
4457	6573	CUUCCUCC U UUCUCUG	10641	GCAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGAAG	29016
4461	6569	CUCCUUC U CUGCAGU	10642	CACUGCAG CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGGAG	29017
4463	6567	CCUUCUUC U GCAGUGG	10643	GCCACUC CUGAUGAG	GCCGUUAGGC	CGAA	IAGAAAGG	29018
4466	6564	UUCUCUG A GUGGCCAC	10644	GUGGCCAC CUGAUGAG	GCCGUUAGGC	CGAA	ICACAGAA	29019
4472	6558	GCAGUGG C ACAACGUA	10645	UACGUUGU CUGAUGAG	GCCGUUAGGC	CGAA	ICCAUGC	29020
4473	6557	CAGUGGCC A CAACGUAC	10646	GUACGUUG CUGAUGAG	GCCGUUAGGC	CGAA	IGCCACUG	29021
4475	6555	GUGGCCAC A ACGUACA	10647	AUGUACGU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGCCAC	29022
4482	6548	CAACGUAC A UGUGUCA	10648	UGACACCA CUGAUGAG	GCCGUUAGGC	CGAA	IUACGUUG	29023
4490	6540	AUGGUGUC A AGUGCUUC	10649	GAAGCACU CUGAUGAG	GCCGUUAGGC	CGAA	IACACCAU	29024
4496	6534	UCAAGUGC U UCCCAUGU	10650	ACAUGGGA CUGAUGAG	GCCGUUAGGC	CGAA	ICACUUGA	29025
4499	6531	AGUGCUUC C CAUGUCU	10651	AAGACAUG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGCACU	29026
4500	6530	GUGCUUC C AUGUCUC	10652	GAAGACAU CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGCAC	29027
4501	6529	UGCUUCC A UGUUCC	10653	GGAAGACA CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAGCA	29028
4506	6524	CCAUGUC U UCCCAUG	10654	CAUGGGGA CUGAUGAG	GCCGUUAGGC	CGAA	IACAUGGG	29029
4509	6521	AUGUCUUC C CCAUGAAG	10655	CUUCAUGG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGACAU	29030
4510	6520	UGUCUUC C CAUGAAGU	10656	ACUUCAUG CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGACA	29031
4511	6519	GUUUCUCC C AUGAAGUG	10657	CACUUCAU CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAGAC	29032
4512	6518	UCUUCUCC A UGAAGUGC	10658	GCACUUA CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAGA	29033
4521	6509	UGAAGUGC U CAGGCAUC	10659	GAUGCCUG CUGAUGAG	GCCGUUAGGC	CGAA	ICACUUA	29034
4523	6507	AAGUGCUC A GCAUCU	10660	AAGAUGC CUGAUGAG	GCCGUUAGGC	CGAA	ICACUUA	29035
4527	6503	GCUCAGG A UCUUCC	10661	GGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA	ICCUAGC	29036
4530	6500	CAGGCAUC U UUCCAGA	10662	UCUGGGAA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGCCUG	29037
4534	6496	CAUCUUC C CAGAACCU	10663	AGGUUCUG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAUG	29038
4535	6495	AUCUUC C AGAACCU	10664	GAGGUUCU CUGAUGAG	GCCGUUAGGC	CGAA	IGAAAGAU	29039
4536	6494	UCUUCUCC A GAACCU	10665	UGAGGUUC CUGAUGAG	GCCGUUAGGC	CGAA	IGAAAGA	29040

4541	6489	CCCAGAAC C UCAAUGAG	10666	CUCAUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUGGG	29041
4542	6488	CCAGAACC U CAAUGAGC	10667	GCUCAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUCUGG	29042
4544	6486	AGAACCUC A AUGAGCCC	10668	GGGCUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGUUCU	29043
4551	6479	CAAUGAGC C CUAUCUGA	10669	UCAGAUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCAUUG	29044
4552	6478	AAUGAGCC C UAUCUGAG	10670	CUCAGAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUCAUU	29045
4553	6477	AUGAGCCC U AUCUGAGA	10671	UCUCAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCUCAU	29046
4557	6473	GCCCUAUC U GAGAACGU	10672	ACGUUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAGGGC	29047
4570	6460	ACGUUUUC C CGAGGCGA	10673	UCGCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAACGU	29048
4571	6459	CGUUUUCC C GAGGCGAA	10674	UUCGCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAAACG	29049
4583	6447	GCGAAGUC C UUGAACGC	10675	GCGUUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUUCGC	29050
4584	6446	CGAAGUCC U UGAACGCC	10676	GGCGUUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACUUCG	29051
4592	6438	UUGAACGC C UUUAGUGC	10677	GCACUAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUUCAA	29052
4593	6437	UGAACGCC U UUAGUGCC	10678	GGCACUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGUUCA	29053
4601	6429	UUUAGUGC C UGGUGAUC	10679	GAUCACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACUAAA	29054
4602	6428	UUAGUGCC U GGUUGAUC	10680	GGAUACCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCACUAA	29055
4610	6420	UGGUGAUC C GAGUACAC	10681	GUGUACUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUACCCA	29056
4617	6413	CGAGUAC A CCUGGGCG	10682	CGCCAGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACUCGG	29057
4619	6411	GAGUACAC C CUGGCGUC	10683	GACGCCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUACUC	29058
4620	6410	AGUACACC C UGGCGUCA	10684	UGACGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUACU	29059
4621	6409	GUACACCC U GGCGUCAA	10685	UUGACGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUGUAC	29060
4628	6402	CUGGCGUC A AUCCAGCG	10686	CGCUGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGCCAG	29061
4632	6398	CGUCAUUC C AGCGCGGC	10687	GCCGCGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGACG	29062
4633	6397	GUCAAUCC A GCGCGGCC	10688	GGCCGCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUUGAC	29063
4641	6389	AGCGCGGC C UCAGAAUC	10689	GAUUCUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGCGCU	29064
4642	6388	GCGCGGCC U CAGAAUCU	10690	AGAUUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGCGCGC	29065
4644	6386	GCGGCCUC A GAAUCUUC	10691	GAAGAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGCCGC	29066
4650	6380	UCAGAAUC U UCCUUUCA	10692	UGAAAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCUGA	29067
4653	6377	GAAUCUUC C UUCACCA	10693	UGGUGAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGAUUC	29068
4654	6376	AAUCUUC U UUCACCA	10694	UUGGUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGAUU	29069
4658	6372	UUCUUUC A CCAAGCUU	10695	AAGCUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGGAA	29070
4660	6370	CCUUUCAC C AAGCUUCG	10696	CGAAGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAAAGG	29071
4661	6369	CUUUCACC A AGCUUCGU	10697	ACGAAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGAAAG	29072
4665	6365	CACCAAGC U UCGUGAUG	10698	CAUACGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUGUG	29073
4676	6354	GUGAUGAC U UCCACUUC	10699	GAAGUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAUCAC	29074
4679	6351	AUGACUUC C ACUUCGUU	10700	AACGAAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGUCAU	29075
4680	6350	UGACUUC A CUUCGUUG	10701	CAACGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGUCA	29076
4682	6348	ACUUCAC U UCGUUGUU	10702	AACAACGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAAGU	29077
4694	6336	UUGUUGUC U UCUAAAUA	10703	AUUUUAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAACAA	29078
4697	6333	UUGUCUUC U AAAUUGU	10704	ACAAUUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGACAA	29079
4713	6317	UGUUUGUC C UAGGACCA	10705	UGGUCCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAAACA	29080
4714	6316	GUUUGUCC U AGGACCAU	10706	AUGGUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCAAAAC	29081
4720	6310	CCUAGGAC C AUCAAAGC	10707	GCUUUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCUAGG	29082
4721	6309	CUAGGACC A UCAAAGCA	10708	UGC UUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCCUAG	29083
4724	6306	GGACCAUC A AAGCACCA	10709	UGGUGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGUCC	29084
4729	6301	AUCAAGC A CCACCUCC	10710	GGAGGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUGAU	29085
4731	6299	CAAAGCAC C ACCUCCGG	10711	COGGAGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCUUUG	29086
4732	6298	AAAGCACC A CCUCCGGU	10712	ACCGGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGCUUU	29087
4734	6296	AGCACACC C UCCGGUCG	10713	CGACCGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGUGCU	29088
4735	6295	GCACCACC U CCGGUCGU	10714	ACGACCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUGUC	29089
4737	6293	ACCACCUC C GGUCGUGG	10715	CCACGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGUGGU	29090
4752	6278	GGUAUGAC A CUCCAGCC	10716	GGCUGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAUACC	29091
4754	6276	UAUGACAC U CCAGCCGC	10717	GCGGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUCAUA	29092
4756	6274	UGACACUC C AGCCGCGU	10718	CAGCGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGUCA	29093
4757	6273	GACACUCC A GCCGCGUC	10719	GCAGCGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGUGUC	29094
4760	6270	ACUCCAGC C GCUGCAAC	10720	GUUGCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGGAGU	29095
4763	6267	CCAGCCGC U GCAACCUU	10721	AAGGUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGUGG	29096
4766	6264	GCCGCGUC A ACCUUGUA	10722	UACAAGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGCGGC	29097
4769	6261	GCUGCAAC C UUGUAAGC	10723	GCUUACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGCAGC	29098
4770	6260	CUGCAACC U UGUAAAGC	10724	GGCUUACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUGCAG	29099
4778	6252	UUGUAAGC C AGCCAAAC	10725	GUUUGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUACAA	29100
4779	6251	UGUAAGCC A GCCAAACU	10726	AGUUUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUUACA	29101

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4782	6248	AAGCCAGC C AAACUGGC	10727	GCCAGUUU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGCUU	29102
4783	6247	AGCCAGCC A AACUGGCA	10728	UGCCAGUU CUGAUGAG	GCCGUUAGGC	CGAA IGCUGGCU	29103
4787	6243	AGCCAAAC U GGCAGAU	10729	GAUCUGCC CUGAUGAG	GCCGUUAGGC	CGAA IUUUGGCU	29104
4791	6239	AAACUGGC A GAUCUGCA	10730	UGCAGAU CUGAUGAG	GCCGUUAGGC	CGAA ICCAGUUU	29105
4796	6234	GGCAGAU U GCAGUCCU	10731	AGGACUGC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGCC	29106
4799	6231	AGAUCUGC A GUCCUCAA	10732	UUGAGGAC CUGAUGAG	GCCGUUAGGC	CGAA ICAGAUUC	29107
4803	6227	CUGCAGUC C UCAACAGU	10733	ACUGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IACUGCAG	29108
4804	6226	UGCAGUCC U CAACAGUU	10734	AACUGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGACUGCA	29109
4806	6224	CAGUCCUC A ACAGUUC	10735	GGAACUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGGACUG	29110
4809	6221	UCCUCAAC A GUUCCAGA	10736	UCUGGAAC CUGAUGAG	GCCGUUAGGC	CGAA IUUGAGGA	29111
4814	6216	AACAGUCC C AGAAAGUU	10737	AACUUUCU CUGAUGAG	GCCGUUAGGC	CGAA IAACUGUU	29112
4815	6215	ACAGUUC C A GAAAGUUU	10738	AAACUUUC CUGAUGAG	GCCGUUAGGC	CGAA IGAACUGU	29113
4828	6202	GUUUUUU U CUCUUCUC	10739	GAGAAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAAAAAC	29114
4830	6200	UUUUUCUC U CUUCUCCU	10740	AGGAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAAAA	29115
4832	6198	UUUCUCUC U UCUCUCU	10741	AGAGGAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGAGAAA	29116
4835	6195	CUCUCUC U CCUCUGAG	10742	CUCAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAAGAGAG	29117
4837	6193	CUCUCUC C UCUGAGCC	10743	GGCUCAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGAG	29118
4838	6192	UCUUCUC U CUGAGCCG	10744	CGCUCAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGAGA	29119
4840	6190	UUUCUCUC U GAGCCGGU	10745	ACCGGCUC CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGAA	29120
4845	6185	CUCUGAG C GGUAUUC	10746	GGAAUACC CUGAUGAG	GCCGUUAGGC	CGAA ICUCAGAG	29121
4853	6177	CGUAUUC C CCAUCCAU	10747	AUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA IAAUACCG	29122
4854	6176	GGUAUUC C CAUCCAU	10748	CAUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA IGAUACCG	29123
4855	6175	GUUAUUC C AUCCAUGG	10749	CAUUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IGGAAUAC	29124
4856	6174	UAUUCUCC A UCCAUGGU	10750	ACCAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGGAAUA	29125
4859	6171	UCCCAUC C AUGGUUA	10751	UAUACCAU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGGA	29126
4860	6170	CCCAUCC A UGUUAU	10752	AUAUACCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGGG	29127
4871	6159	GUUAUAC C UUCUCACG	10753	CGUGAGAA CUGAUGAG	GCCGUUAGGC	CGAA IUUAUAC	29128
4872	6158	UAUAUAC U UCUCACG	10754	GCGUGAGA CUGAUGAG	GCCGUUAGGC	CGAA IGUAUAUA	29129
4875	6155	AUACCUUC U CACGUCU	10755	AGAGCGUG CUGAUGAG	GCCGUUAGGC	CGAA IAAGGUUA	29130
4877	6153	ACCUUCUC A CGCUCUGG	10756	CCAGAGCG CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGGU	29131
4881	6149	UCUCACG U CUGUUGG	10757	CCAACCAG CUGAUGAG	GCCGUUAGGC	CGAA ICGUGAGA	29132
4883	6147	UCACGUC U GGUUGUA	10758	UACCAACC CUGAUGAG	GCCGUUAGGC	CGAA IAGCGUGA	29133
4905	6125	GAGCGAU C GUCCGUU	10759	AAACGGAC CUGAUGAG	GCCGUUAGGC	CGAA IAUCCGUC	29134
4909	6121	GAUCAGU C GUUUGGCA	10760	UGCCAAAC CUGAUGAG	GCCGUUAGGC	CGAA IACUGAUC	29135
4917	6113	CGUUGGC A UGUUGAG	10761	CAUCAACA CUGAUGAG	GCCGUUAGGC	CGAA ICCAAACG	29136
4931	6099	AUGUUGU C AGCAUGAU	10762	AUCAUGCU CUGAUGAG	GCCGUUAGGC	CGAA IACAACAU	29137
4932	6098	UGUUGUC A GCAUGAU	10763	AAUCAUGC CUGAUGAG	GCCGUUAGGC	CGAA IACAACA	29138
4935	6095	UGUCAGC A UGAUUCG	10764	ACGAUAUA CUGAUGAG	GCCGUUAGGC	CGAA ICUGGACA	29139
4946	6084	AUUCGUG C UCAGUCCA	10765	UGGACUGA CUGAUGAG	GCCGUUAGGC	CGAA ICACGAU	29140
4947	6083	UUCGUGC U CAGUCCAA	10766	UUGGACUG CUGAUGAG	GCCGUUAGGC	CGAA IGCACGAA	29141
4949	6081	CGUGCCU A GUCCAUG	10767	CAUUGGAC CUGAUGAG	GCCGUUAGGC	CGAA IAGGCACG	29142
4953	6077	CCUCAGU C AAUGGGCG	10768	CGCCCAU CUGAUGAG	GCCGUUAGGC	CGAA IACUGAGG	29143
4954	6076	CUCAGUC A AUGGGCGA	10769	UCGCCAU CUGAUGAG	GCCGUUAGGC	CGAA IGACUGAG	29144
4976	6054	GAGUCGU U UCAUUCG	10770	ACGAAUGA CUGAUGAG	GCCGUUAGGC	CGAA IACGACUC	29145
4979	6051	UCGUCUC A UUCGUGG	10771	CACACGAA CUGAUGAG	GCCGUUAGGC	CGAA IAAGACGA	29146
4989	6041	UCGUGUG C CCCAUAA	10772	UUAUGGGG CUGAUGAG	GCCGUUAGGC	CGAA ICACACGA	29147
4990	6040	CGUGUGC C CCCAUAA	10773	GUUAUGGG CUGAUGAG	GCCGUUAGGC	CGAA IGCACACG	29148
4991	6039	GUGUGCC C CCAUAAC	10774	UGUUAUGG CUGAUGAG	GCCGUUAGGC	CGAA IGGCACAC	29149
4992	6038	UGUGCCC C CAUAACAG	10775	CUGUUAUG CUGAUGAG	GCCGUUAGGC	CGAA IGGGCACA	29150
4993	6037	GUGCCCC C AUAACAGU	10776	ACUGUUAU CUGAUGAG	GCCGUUAGGC	CGAA IGGGGCAC	29151
4994	6036	UGCCCCC A UAACAGUA	10777	UACUGUUA CUGAUGAG	GCCGUUAGGC	CGAA IGGGGGCA	29152
4999	6031	CCCAUAAC A GUACUCAU	10778	AUGAGUAC CUGAUGAG	GCCGUUAGGC	CGAA IUUAUGGG	29153
5004	6026	AACAGUAC U CAUACCA	10779	UGGUGAUG CUGAUGAG	GCCGUUAGGC	CGAA IUACUGUU	29154
5006	6024	CAGUACUC A UCACCAAC	10780	GUUGGUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGUACUG	29155
5009	6021	UACUCAUC A CCAACUUG	10781	CAAGUUGG CUGAUGAG	GCCGUUAGGC	CGAA IAUAGUA	29156
5011	6019	CUCAUCAC C AACTUGCG	10782	CGCAAGU CUGAUGAG	GCCGUUAGGC	CGAA IUAGUAG	29157
5012	6018	UCAUACC A ACUUGCGA	10783	UCGCAAGU CUGAUGAG	GCCGUUAGGC	CGAA IUGAUGA	29158
5015	6015	UCACCAAC U UGCGACGG	10784	CCGUGCA CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUGA	29159
5029	6001	CGAUUUC U ACCGAUAC	10785	GUUUCGGU CUGAUGAG	GCCGUUAGGC	CGAA IAAAUCCG	29160
5032	5998	AUUUCUAC C GAUACGUC	10786	GACGUUAC CUGAUGAG	GCCGUUAGGC	CGAA IUAGAAU	29161
5041	5989	GAUACGUC C ACGUCUCU	10787	AGAGACGU CUGAUGAG	GCCGUUAGGC	CGAA IACGUUAC	29162

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5042	5988	AUACGUCC A CGUCUCUG	10788	CAGAGACG CUGAUGAG	GCCGUUAGGC	CGAA IGACGUU	29163
5047	5983	UCCACGUC U CUGGGCGG	10789	CCGCCACG CUGAUGAG	GCCGUUAGGC	CGAA IACGUGGA	29164
5049	5981	CACGUCUC U GGGCGGCA	10790	UGCCGCCG CUGAUGAG	GCCGUUAGGC	CGAA IAGACGUG	29165
5057	5973	UGGGCGGC A CUAGCUGC	10791	GCAGCUAG CUGAUGAG	GCCGUUAGGC	CGAA ICCGCCCA	29166
5059	5971	GGCGGCAC U AGCUGCUG	10792	CAGCAGCU CUGAUGAG	GCCGUUAGGC	CGAA IUGCCGCC	29167
5063	5967	GCACUAGC U GCUGUCAC	10793	GUGACAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUAGUGC	29168
5066	5964	CUAGCUGC U GUCACUGC	10794	GCAGUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICAGCUAG	29169
5070	5960	CUGCUGC A CUGCAGAU	10795	AUCUGCAG CUGAUGAG	GCCGUUAGGC	CGAA IACAGCAG	29170
5072	5958	GCUGUCAC U GCAGAUGG	10796	CCAUCUGC CUGAUGAG	GCCGUUAGGC	CGAA IUGACAGC	29171
5075	5955	GUCACUGC A GAUGGUUC	10797	GAACCAUC CUGAUGAG	GCCGUUAGGC	CGAA ICAGUGAC	29172
5084	5946	GAUGGUUC U CCCAGGAU	10798	AUCCUGGG CUGAUGAG	GCCGUUAGGC	CGAA IAACCAUC	29173
5086	5944	UGGUUCUC C CAGGAUCA	10799	UGAUCCUG CUGAUGAG	GCCGUUAGGC	CGAA IAGAACCA	29174
5087	5943	GGUUCUCC C AGGAUCAC	10800	GUGAUCCU CUGAUGAG	GCCGUUAGGC	CGAA IGAGAACC	29175
5088	5942	GUUCUCCC A GGAUCACU	10801	AGUGAUCC CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAAC	29176
5094	5936	CCAGGAUC A CUCUCCCU	10802	AGGGAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAUCCUGG	29177
5096	5934	AGGAUCAC U CUCCCUUC	10803	GAAGGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGAUCCU	29178
5098	5932	GAUCACUC U CCCUUCUC	10804	GAGAAGGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUGAUC	29179
5100	5930	UCACUCUC C CUUCUCCU	10805	AGGAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUGA	29180
5101	5929	CACUCUC C UUCUCCUU	10806	AAAGGAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUG	29181
5102	5928	ACUCUCCC U UCUCUUC	10807	GAAGGAGA CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAGU	29182
5105	5925	CUCCUUC U CCUUCUGU	10808	ACAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA IAAGGGAG	29183
5107	5923	CCCUUCUC C UUCUGUUA	10809	UAACAGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGGG	29184
5108	5922	CCUUCUC U UCUGUUAU	10810	AUAACAGA CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAGG	29185
5111	5919	UCUCUUC U GUUAUGAU	10811	AUCAUAC CUGAUGAG	GCCGUUAGGC	CGAA IAAGGAGA	29186
5130	5900	UUGGUUUC A CACUCUUC	10812	GAAGAGUG CUGAUGAG	GCCGUUAGGC	CGAA IAAACCAA	29187
5132	5898	GUUUCAC A CUCUCCG	10813	CGGAAGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGAAACC	29188
5134	5896	UUUCACAC U CUUCCGGC	10814	GCCGGAAG CUGAUGAG	GCCGUUAGGC	CGAA IUGGAAA	29189
5136	5894	UCACACUC U UCCGGCUG	10815	CAGCCGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUGA	29190
5139	5891	CACUCUUC C GGCUGUCA	10816	UGACAGCC CUGAUGAG	GCCGUUAGGC	CGAA IAAGAGUG	29191
5143	5887	CUUCCGGC U GUCAAUCA	10817	UGAUUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICCGGAAG	29192
5147	5883	CGGCUGUC A AUCACCCU	10818	AGGGUGAU CUGAUGAG	GCCGUUAGGC	CGAA IACAGCCG	29193
5151	5879	UGUCAAUC A CCCUGCUC	10819	GAGCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGACA	29194
5153	5877	UCAUACAC C CUGCUCGC	10820	GCGAGCAG CUGAUGAG	GCCGUUAGGC	CGAA IUGAUUGA	29195
5154	5876	CAUACAC C UGCUCGCC	10821	CGGAGCA CUGAUGAG	GCCGUUAGGC	CGAA IUGAUUG	29196
5155	5875	AAUACCC U GCUCGCCU	10822	AGGCGAGC CUGAUGAG	GCCGUUAGGC	CGAA IGGUGAUU	29197
5158	5872	CACCCUGC U CGCCUUGA	10823	UCAAGGCG CUGAUGAG	GCCGUUAGGC	CGAA ICAGGGUG	29198
5162	5868	CUGCUCGC C UUGAAGUU	10824	AACUUCAA CUGAUGAG	GCCGUUAGGC	CGAA ICAGCAG	29199
5163	5867	UGCUCGCC U UGAAGUUA	10825	UAACUUA CUGAUGAG	GCCGUUAGGC	CGAA IGCAGCA	29200
5174	5856	AAGUUAGC C CCCAUUUC	10826	GAAAUUGG CUGAUGAG	GCCGUUAGGC	CGAA ICUAACUU	29201
5175	5855	AGUUAGCC C CCAUUUCA	10827	UGAAUUGG CUGAUGAG	GCCGUUAGGC	CGAA IGCUAACU	29202
5176	5854	GUUAGCCC C CAUUUCAG	10828	CUGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA IGGCUAAC	29203
5177	5853	UAGCCCC C AUUUCAGA	10829	UCUGAAU CUGAUGAG	GCCGUUAGGC	CGAA IGGGCUAA	29204
5178	5852	UAGCCCC A UUUCAGAU	10830	AUCUGAAA CUGAUGAG	GCCGUUAGGC	CGAA IGGGCUAA	29205
5183	5847	CCCAUUC A GAUAUGUC	10831	GACAUUAC CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGGG	29206
5192	5838	GAUAUGUC U GUUGUGAU	10832	AUCACAAC CUGAUGAG	GCCGUUAGGC	CGAA IACAUUUC	29207
5204	5826	GUGAUUAC A AAGUCCCA	10833	UGGGACUU CUGAUGAG	GCCGUUAGGC	CGAA IUUAUCAC	29208
5210	5820	ACAAAGUC C CAAUUAUC	10834	GAUGAUUG CUGAUGAG	GCCGUUAGGC	CGAA IACUUUGU	29209
5211	5819	CAAAGUCC C AAUCAUCG	10835	CGAUGAUU CUGAUGAG	GCCGUUAGGC	CGAA IGACUUUG	29210
5212	5818	AAAGUCC A AUCAUCGU	10836	ACGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA IGGACUUU	29211
5216	5814	UCCCAAUC A UCUGUCUU	10837	AAGAACGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGGA	29212
5223	5807	CAUCGUUC U UACAUUUU	10838	AAAAUGUA CUGAUGAG	GCCGUUAGGC	CGAA IAACGAUG	29213
5227	5803	GUUCUUC A UUUGGGU	10839	ACCCAAA CUGAUGAG	GCCGUUAGGC	CGAA IUAAGAAC	29214
5238	5792	UUGGGUAC U CCGUCUCG	10840	CGAGACGG CUGAUGAG	GCCGUUAGGC	CGAA IUACCCAA	29215
5240	5790	GGGUACUC C GUCUCGUA	10841	UACGAGAC CUGAUGAG	GCCGUUAGGC	CGAA IAGUACCC	29216
5244	5786	ACUCCGUC U CGUACGAC	10842	GUCGUACG CUGAUGAG	GCCGUUAGGC	CGAA IACGGAGU	29217
5253	5777	CGUACGAC U UUCUGUUC	10843	GAACAGAA CUGAUGAG	GCCGUUAGGC	CGAA IUCGUACG	29218
5257	5773	CGAUUUC U GUUCAAUU	10844	AAUUGAAC CUGAUGAG	GCCGUUAGGC	CGAA IUAAGUCG	29219
5262	5768	UUCUGUUC A AUUGGACU	10845	AGUCCAAU CUGAUGAG	GCCGUUAGGC	CGAA IAAACAGAA	29220
5270	5760	AAUUGGAC U ACUUUCUU	10846	AAGAAAGU CUGAUGAG	GCCGUUAGGC	CGAA IUCCAAUU	29221
5273	5757	UGGACUAC U UUCUUUCC	10847	GGAAAGAA CUGAUGAG	GCCGUUAGGC	CGAA IUAGUCCA	29222
5277	5753	CUACUUUC U UUCAGCA	10848	UGCUGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAAAGUAG	29223

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5281	5749	UUUCUUUC C AGCACGUU	10849	AACGUGCU CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAAA	29224
5282	5748	UUUUUUCC A GCACGUUG	10850	CAACGUGC CUGAUGAG	GCCGUUAGGC	CGAA IGAAAGAA	29225
5285	5745	UUUCCAGC A CGUUGUAG	10851	CUACAACG CUGAUGAG	GCCGUUAGGC	CGAA ICUGGAAA	29226
5296	5734	UUGUAGGC A AAGGGCAA	10852	UUGCCCUU CUGAUGAG	GCCGUUAGGC	CGAA ICCUACAA	29227
5303	5727	CAAAGGGC A AUCUCAUU	10853	AAUGAGAU CUGAUGAG	GCCGUUAGGC	CGAA ICCUUUUG	29228
5307	5723	GGGCAAUC U CAUUCCCC	10854	GGGGAAUG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGCCC	29229
5309	5721	GCAAUCUC A UUCCCCAU	10855	AUGGGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAUUGC	29230
5313	5717	UCUCAUUC C CCAUCUUG	10856	CAAGAUGG CUGAUGAG	GCCGUUAGGC	CGAA IAAUGAGA	29231
5314	5716	CUCAUUC C CAUCUUGA	10857	UCAAGAU CUGAUGAG	GCCGUUAGGC	CGAA IGAAUGAG	29232
5315	5715	UCAUUC C AUCUUGAC	10858	GUCAAGAU CUGAUGAG	GCCGUUAGGC	CGAA IGAUGAGA	29233
5316	5714	CAUUCCCC A UCUUGACA	10859	UGUCAAGA CUGAUGAG	GCCGUUAGGC	CGAA IGGAAUG	29234
5319	5711	UCCCCAUC U UGACACUA	10860	UAGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA IAUGGGGA	29235
5324	5706	AUCUUGAC A CUAGGCAC	10861	GUGCCUAG CUGAUGAG	GCCGUUAGGC	CGAA IUCAAGAU	29236
5326	5704	CUUGACAC U AGGCACAA	10862	UUGUGCCU CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAAG	29237
5331	5699	CACUAGGC A CAAACCAA	10863	UUGGUUUG CUGAUGAG	GCCGUUAGGC	CGAA ICCUAGUG	29238
5333	5697	CUAGGCAC A AACCAAAC	10864	GUUUGGUU CUGAUGAG	GCCGUUAGGC	CGAA IUGCCUAG	29239
5337	5693	GCACAAAC C AAACCGUC	10865	GACGGUUU CUGAUGAG	GCCGUUAGGC	CGAA IUUUGUGC	29240
5338	5692	CACAAACC A AACCGUCU	10866	AGACGGUU CUGAUGAG	GCCGUUAGGC	CGAA IGUUUGUG	29241
5342	5688	AACCAAAC C GUCUUC C	10867	GGGAAGAC CUGAUGAG	GCCGUUAGGC	CGAA IUUUGGUU	29242
5346	5684	AAACCGUC U UCCCGGUG	10868	CACCGGGA CUGAUGAG	GCCGUUAGGC	CGAA IACGGUUU	29243
5349	5681	CCGUCUUC C CGGUGUAU	10869	AUACACCG CUGAUGAG	GCCGUUAGGC	CGAA IAAGACGG	29244
5350	5680	CGUCUUC C GGUGUAUU	10870	AAUACACC CUGAUGAG	GCCGUUAGGC	CGAA IGAAGACG	29245
5360	5670	GUUAUUC U GUGAUCCA	10871	UGGAUCAC CUGAUGAG	GCCGUUAGGC	CGAA IAAUACAC	29246
5367	5663	CUGUGAUC C AUUCGUUU	10872	AUACGAAU CUGAUGAG	GCCGUUAGGC	CGAA IAUACACG	29247
5368	5662	UGUGAUC C AUUCGUUU	10873	GAUACGAA CUGAUGAG	GCCGUUAGGC	CGAA IGAUCACA	29248
5377	5653	UGUGAUC C AGAGUUC	10874	GGAACUCU CUGAUGAG	GCCGUUAGGC	CGAA IAUACGAA	29249
5378	5652	UCUGAUC C AGAGUUC	10875	UGGAACUC CUGAUGAG	GCCGUUAGGC	CGAA IGAUACGA	29250
5385	5645	CAGAGUUC C AAGCUCGA	10876	UCGAGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAACUCUG	29251
5386	5644	AGAGUUC C AGCUCGAU	10877	AUCGAGCU CUGAUGAG	GCCGUUAGGC	CGAA IGAACUCU	29252
5390	5640	UUCCAAAGC U CGAUCCGG	10878	CCGGAUCG CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGAA	29253
5396	5634	GCUCGAUC C GGGAUUC	10879	GAGAUCCC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGAGC	29254
5403	5627	CCGGGAUC U CAGUCUGU	10880	ACAGACUG CUGAUGAG	GCCGUUAGGC	CGAA IAUCCCGG	29255
5405	5625	GGGAUCUC A GUCUGUAA	10881	UCACAGAC CUGAUGAG	GCCGUUAGGC	CGAA IAGAUCCC	29256
5409	5621	UCUCAGUC U GUAAGUCG	10882	CGACUAC CUGAUGAG	GCCGUUAGGC	CGAA IACUGAGA	29257
5436	5594	AAUUGGAC U CUGGGAAU	10883	AUUCCCAG CUGAUGAG	GCCGUUAGGC	CGAA IUCCAAUU	29258
5438	5592	UUGGACUC U GGGAAUGG	10884	CCAUUC CUGAUGAG	GCCGUUAGGC	CGAA IAGUCCAA	29259
5450	5580	AAUGGAUC U GAAGUGCC	10885	GGCACUUC CUGAUGAG	GCCGUUAGGC	CGAA IAUCCAUU	29260
5458	5572	UGAAGUGC C UGUGGGG	10886	CCCCACCA CUGAUGAG	GCCGUUAGGC	CGAA ICACUUCA	29261
5459	5571	GAAGUGCC U GGUGGGG	10887	ACCCACC CUGAUGAG	GCCGUUAGGC	CGAA IGCACUUC	29262
5471	5559	GGGUGGC U GUCAUGAA	10888	UUCAUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICCACCCC	29263
5475	5555	UGGUGUC A UGAUAUU	10889	AAUAUCA CUGAUGAG	GCCGUUAGGC	CGAA IACAGCCA	29264
5486	5544	AAUAUUGC C GCCGCCUC	10890	GAGGCGC CUGAUGAG	GCCGUUAGGC	CGAA ICAUAUU	29265
5489	5541	AUUGCCGC C GCCUCCC	10891	GGGGAGGC CUGAUGAG	GCCGUUAGGC	CGAA ICGGCAAU	29266
5492	5538	GCCGCCGC C UCCCUAG	10892	CUAGGGGA CUGAUGAG	GCCGUUAGGC	CGAA ICGGCGGC	29267
5493	5537	CCGCCGCC U CCCUAGC	10893	GUAGGGG CUGAUGAG	GCCGUUAGGC	CGAA ICGGCGG	29268
5495	5535	GCCGCCUC C CCUAGCUC	10894	GAGCUAGG CUGAUGAG	GCCGUUAGGC	CGAA IAGGCGC	29269
5496	5534	CCGCCUC C CUAGCUCG	10895	CGAGCUAG CUGAUGAG	GCCGUUAGGC	CGAA IGAGGCG	29270
5497	5533	CGCCUCC C UAGCUCGA	10896	UCGAGCUA CUGAUGAG	GCCGUUAGGC	CGAA IGGAGCG	29271
5498	5532	GCCUCCC U AGCUCGAC	10897	GUCGAGCU CUGAUGAG	GCCGUUAGGC	CGAA IGGAGGC	29272
5502	5528	CCCUAGC U CGACCUU	10898	AAAGGUCG CUGAUGAG	GCCGUUAGGC	CGAA ICUAGGGG	29273
5507	5523	AGCUCGAC C UUUGUGGA	10899	UCCACAAA CUGAUGAG	GCCGUUAGGC	CGAA IUCGAGCU	29274
5508	5522	GCUCGACC U UUGUGGAA	10900	UUCACAAA CUGAUGAG	GCCGUUAGGC	CGAA IGUCGAGC	29275
5524	5506	AAUGUAAC C UCUGUCG	10901	CAGCAAGA CUGAUGAG	GCCGUUAGGC	CGAA IUUACAUU	29276
5525	5505	AUGUAACC U CUUGUCG	10902	GCAGCAAG CUGAUGAG	GCCGUUAGGC	CGAA IGUUACAU	29277
5527	5503	GUAAACCUC U UGCUGCAA	10903	UUGCAGCA CUGAUGAG	GCCGUUAGGC	CGAA IAGGUUAC	29278
5531	5499	CCUCUUGC U GCAAUGCU	10904	AGCAUUGC CUGAUGAG	GCCGUUAGGC	CGAA ICAAGAGG	29279
5534	5496	CUUGUCG A AUGCUAGC	10905	GUAGCAU CUGAUGAG	GCCGUUAGGC	CGAA ICAGCAAG	29280
5539	5491	UGCAAUGC U AGCUGGGU	10906	ACCCAGCU CUGAUGAG	GCCGUUAGGC	CGAA ICAUUGCA	29281
5543	5487	AUGCUAGC U GGGUCGGU	10907	ACCGACCC CUGAUGAG	GCCGUUAGGC	CGAA ICUAGCAU	29282
5561	5469	AAAUGAGC C UCAUCCA	10908	AUGGAUGA CUGAUGAG	GCCGUUAGGC	CGAA ICUCAUUU	29283
5562	5468	AAUGAGCC U CAUCCAUC	10909	GAUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA IGCUCAU	29284

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5564	5466	UGAGCCUC A UCCAUCAC	10910	GUGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGCUCA	29285
5567	5463	GCCUCAUC C AUCACGAA	10911	UUCGUGAU CUGAUGAG	GCCGUUAGGC	CGAA	IAUGAGGC	29286
5568	5462	CCUCAUCC A UCACGAAC	10912	GUUCUGA CUGAUGAG	GCCGUUAGGC	CGAA	IGAUGAGG	29287
5571	5459	CAUCCAUC A CGAACAGG	10913	CCUGUUCG CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGAUG	29288
5577	5453	UCACGAAC A GGUUGUAG	10914	CUACAACC CUGAUGAG	GCCGUUAGGC	CGAA	IUUCGUGA	29289
5592	5438	AGUUCGGC A CCCUGUGA	10915	UCACAGGG CUGAUGAG	GCCGUUAGGC	CGAA	ICCGAACU	29290
5594	5436	UUCGGCAC C CUGUGAGG	10916	CCUCACAG CUGAUGAG	GCCGUUAGGC	CGAA	IUGCCGAA	29291
5595	5435	UCGGCACC C UGUGAGGA	10917	UCCUCACA CUGAUGAG	GCCGUUAGGC	CGAA	IGUGCCGA	29292
5596	5434	CGGCACCC U GUGAGGAG	10918	CUCCUCAC CUGAUGAG	GCCGUUAGGC	CGAA	IGGUGCCG	29293
5607	5423	GAGGAGAC A UCAGCCUG	10919	CAGGCUGA CUGAUGAG	GCCGUUAGGC	CGAA	IUCUCCUC	29294
5610	5420	GAGACAUC A GCCUGUGG	10920	CCACAGGC CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUCUC	29295
5613	5417	ACAUCAGC C UGUGGGUG	10921	CACCCACA CUGAUGAG	GCCGUUAGGC	CGAA	ICUGAUGU	29296
5614	5416	CAUCAGCC U GUGGGUGA	10922	UCACCCAC CUGAUGAG	GCCGUUAGGC	CGAA	IGCUGAUG	29297
5630	5400	AGGGUAGC A UGACACAU	10923	AUGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA	ICUACCCU	29298
5635	5395	AGCAUGAC A CAUGACAU	10924	AUGUCAUG CUGAUGAG	GCCGUUAGGC	CGAA	IUCAUGCU	29299
5637	5393	CAUGACAC A UGACAUCA	10925	UGAUGUCA CUGAUGAG	GCCGUUAGGC	CGAA	IUGUCAUG	29300
5642	5388	CACAUGAC A UCAACAAU	10926	AUUGUUGA CUGAUGAG	GCCGUUAGGC	CGAA	IUCUUGUG	29301
5645	5385	AUGACAUC A ACAUUCUC	10927	GAGAUUGU CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUCAU	29302
5648	5382	ACAUCAAC A AUCUCAU	10928	AAUGAGAU CUGAUGAG	GCCGUUAGGC	CGAA	IUUGAUGU	29303
5652	5378	CAACAAUC U CAUUUCCA	10929	UGGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGUUG	29304
5654	5376	ACAAUCUC A UUUCCAUC	10930	AAUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA	IAGAUGUG	29305
5659	5371	CUCAUUC C AUUAUGUU	10931	AACAUAU CUGAUGAG	GCCGUUAGGC	CGAA	IAAAUGAG	29306
5660	5370	UCAUUUCC A UUAUGUUC	10932	GAACAUA CUGAUGAG	GCCGUUAGGC	CGAA	IGAAUUGA	29307
5669	5361	UUAUGUUC U CUGGGCAC	10933	GUGCCGAC CUGAUGAG	GCCGUUAGGC	CGAA	IAACAUAU	29308
5671	5359	AUGUUCUC U GGGCACUG	10934	CAGUGCCC CUGAUGAG	GCCGUUAGGC	CGAA	IAGAACAU	29309
5676	5354	CUCUGGC A CUGCGGAU	10935	AUCCGCAG CUGAUGAG	GCCGUUAGGC	CGAA	ICCCAGAG	29310
5678	5352	CUGGGCAC U GCGGAUGU	10936	ACAUCCGC CUGAUGAG	GCCGUUAGGC	CGAA	IUGCCCAG	29311
5688	5342	CGGAUGUC U GGUACCGG	10937	CCGGUACC CUGAUGAG	GCCGUUAGGC	CGAA	IACAUCCG	29312
5694	5336	UCUGGUAC C GGAUGGGC	10938	GCCCAUCC CUGAUGAG	GCCGUUAGGC	CGAA	IUACCAGA	29313
5703	5327	GGAUGGGC A GUCCUCUC	10939	GAGAGGAC CUGAUGAG	GCCGUUAGGC	CGAA	ICCCAUCC	29314
5707	5323	GGGCAGUC C UCUCAGUG	10940	CACUGAGA CUGAUGAG	GCCGUUAGGC	CGAA	IACUGCCC	29315
5708	5322	GGCAGUCC U CUCAGUGC	10941	GCACUGAG CUGAUGAG	GCCGUUAGGC	CGAA	IGACUGCC	29316
5710	5320	CAGUCCUC U CAGUGCUU	10942	AAGCACUG CUGAUGAG	GCCGUUAGGC	CGAA	IAGGACUG	29317
5712	5318	GUCCUCUC A GUGCUUCA	10943	UGAAGCAC CUGAUGAG	GCCGUUAGGC	CGAA	IAGAGGAC	29318
5717	5313	CUUCAGUC U UCAGCCAUC	10944	AUGGCUGA CUGAUGAG	GCCGUUAGGC	CGAA	ICACUGAG	29319
5720	5310	AGUGCUUC A GCCAUCUC	10945	GAGAUGGC CUGAUGAG	GCCGUUAGGC	CGAA	IAAGCACU	29320
5723	5307	GCUCAGC C AUCUCAGC	10946	GCUGAGAU CUGAUGAG	GCCGUUAGGC	CGAA	ICUGAAGC	29321
5724	5306	CUUCAGCC A UCUCAGCA	10947	UGCUGAGA CUGAUGAG	GCCGUUAGGC	CGAA	IGCUGAAG	29322
5727	5303	CAGCCAUC U CAGCAGCC	10948	GGCUGCUG CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGCUG	29323
5729	5301	GCCAUCUC A GCAGCCAC	10949	GUGGCUGC CUGAUGAG	GCCGUUAGGC	CGAA	IAGAUGGC	29324
5732	5298	AUCUCAGC A GCCACAAC	10950	GUUGUGGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUGAGAU	29325
5735	5295	UCAGCAGC C ACAACCCU	10951	AGGGUUGU CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCUGA	29326
5736	5294	CAGCAGCC A CAACCCUG	10952	CAGGGUUG CUGAUGAG	GCCGUUAGGC	CGAA	IGCUGCUG	29327
5738	5292	GCAGCCAC A ACCCUGGU	10953	ACCAGGGU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGCUGC	29328
5741	5289	GCCACAAC C CUGGUUGG	10954	CCAACCAG CUGAUGAG	GCCGUUAGGC	CGAA	IUUGUGGC	29329
5742	5288	CCACAACC C UGUUGUGU	10955	ACCAACCA CUGAUGAG	GCCGUUAGGC	CGAA	IGUUGUGG	29330
5743	5287	CACAACCC U GGUUGGUG	10956	CACCAACC CUGAUGAG	GCCGUUAGGC	CGAA	IGGUUGUG	29331
5753	5277	GUUGGUGC U AGCACGGC	10957	GCCGUGCU CUGAUGAG	GCCGUUAGGC	CGAA	ICACCAAC	29332
5757	5273	GUGCUAGC A CGGCUGUU	10958	AACAGCCG CUGAUGAG	GCCGUUAGGC	CGAA	ICUAGCAC	29333
5762	5268	AGCACGGC U GUUCUCAG	10959	CUGAGAAC CUGAUGAG	GCCGUUAGGC	CGAA	ICCGUGCU	29334
5767	5263	GGCUGUUC U CAGUCUUC	10960	GAAGACUG CUGAUGAG	GCCGUUAGGC	CGAA	IAACAGCC	29335
5769	5261	CUGUUCUC A GUCUUCUG	10961	CAGAAGAC CUGAUGAG	GCCGUUAGGC	CGAA	IAGAACAG	29336
5773	5257	UCUCAGUC U UCUGUUUA	10962	UAAACAGA CUGAUGAG	GCCGUUAGGC	CGAA	IACUGAGA	29337
5776	5254	CAGUCUUC U GUUUAUGG	10963	CCAUAAC CUGAUGAG	GCCGUUAGGC	CGAA	IAAGACUG	29338
5786	5244	UUUAUGGC C UCUUUGAU	10964	AUCAAGA CUGAUGAG	GCCGUUAGGC	CGAA	ICCAUAAA	29339
5787	5243	UUAUGGCC U CUUUGAUG	10965	CAUCAAG CUGAUGAG	GCCGUUAGGC	CGAA	ICCAUUA	29340
5789	5241	UUGGCCUC U UUGAUGAU	10966	AUCACAA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGCCAU	29341
5799	5231	UGAUGAUC U GUGGCAGA	10967	UCUGCCAC CUGAUGAG	GCCGUUAGGC	CGAA	IAUCAUCA	29342
5805	5225	UCUGUGGC A GAAUCCUC	10968	GAGGAUUC CUGAUGAG	GCCGUUAGGC	CGAA	ICACAGA	29343
5811	5219	GCAGAAUC C UCCUUGUU	10969	AACAAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAUUCUGC	29344
5812	5218	CAGAAUCC U CCUUGUUU	10970	AAACAAGG CUGAUGAG	GCCGUUAGGC	CGAA	IGAUCUG	29345

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5814	5216	GAAUCCUC C UUGUUUUA	10971	UAAAAACA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAUUC	29346
5815	5215	AAUCCUCC U UGUUUUAC	10972	GUAAAAACA CUGAUGAG	GCCGUUAGGC	CGAA IGAGGAUU	29347
5824	5206	UGUUUUAC C GGCGCCGG	10973	CCGCGCCG CUGAUGAG	GCCGUUAGGC	CGAA IUAAAAACA	29348
5830	5200	ACCGGCGC C GGGAUGGA	10974	UCCAUCCC CUGAUGAG	GCCGUUAGGC	CGAA ICGCCGGU	29349
5843	5187	UGGAGAUC C AGUACAGU	10975	ACUGUACU CUGAUGAG	GCCGUUAGGC	CGAA IAUCCCA	29350
5844	5186	GGAGAUC A GUACAGUG	10976	CACUGUAC CUGAUGAG	GCCGUUAGGC	CGAA IGAUCCUCC	29351
5849	5181	UCCAGUAC A GUGAUCUG	10977	CAGAUCAC CUGAUGAG	GCCGUUAGGC	CGAA IUACUGGA	29352
5856	5174	CAGUGAUC U GUUUUUUC	10978	GAAAAAAC CUGAUGAG	GCCGUUAGGC	CGAA IAUACUG	29353
5865	5165	GUUUUUUC C UCAGCAUC	10979	GAUGCUGA CUGAUGAG	GCCGUUAGGC	CGAA IAAAAAC	29354
5866	5164	UUUUUUCC U CAGCAUCU	10980	AGAUGCUG CUGAUGAG	GCCGUUAGGC	CGAA IGAIAAAA	29355
5868	5162	UUUUCCUC A GCAUCUCA	10981	UGAGAUGC CUGAUGAG	GCCGUUAGGC	CGAA IAGGAAAA	29356
5871	5159	UCCUCAGC A UCUCAGGU	10982	ACCUGAGA CUGAUGAG	GCCGUUAGGC	CGAA ICUGAGGA	29357
5874	5156	UCAGCAUC U CAGGUUCG	10983	CGAACCCUG CUGAUGAG	GCCGUUAGGC	CGAA IAUCCUGA	29358
5876	5154	AGCAUCC C GGUUCGAA	10984	UUCGAACC CUGAUGAG	GCCGUUAGGC	CGAA IAGAUGCU	29359
5887	5143	UUCGAAUC C GGCUGGGA	10985	UCCAGACC CUGAUGAG	GCCGUUAGGC	CGAA IAUUCGAA	29360
5891	5139	AAUCCGGC U GGGAUUGG	10986	CCAAUCCC CUGAUGAG	GCCGUUAGGC	CGAA ICCGGAU	29361
5901	5129	GGAUUGGC U CAUCCAUC	10987	GAUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA ICCAAUCC	29362
5903	5127	AUUGGCUC A UCCAUCU	10988	AGGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCAAU	29363
5906	5124	GGCUCAUC C AUCCUUUC	10989	GAAAGGAU CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGCC	29364
5907	5123	GCUCAUC A UCCUUUCA	10990	UGAAAGGA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGAGC	29365
5910	5120	CAUCCAUC C UUUCACCC	10991	GGGUGAAA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGAUG	29366
5911	5119	AUCCAUC U UUCACCCU	10992	AGGGUGAA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGAU	29367
5915	5115	AUCCUUUC A CCCUGCAC	10993	GUGCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGGAU	29368
5917	5113	CCUUUCAC C CUGCACUA	10994	UAGUGCAG CUGAUGAG	GCCGUUAGGC	CGAA IUGAAAGG	29369
5918	5112	CUUUCACC C UGCACUAU	10995	AUAGUGCA CUGAUGAG	GCCGUUAGGC	CGAA IGUGAAAG	29370
5919	5111	UUUCACCC U GCACUAUC	10996	GAUAGUGC CUGAUGAG	GCCGUUAGGC	CGAA IGGUGAAA	29371
5922	5108	CACCCUGC A CUUACGCG	10997	CGCGAUAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGGGUG	29372
5924	5106	CCCUGCAC U AUCGCGCU	10998	AGCGCGAU CUGAUGAG	GCCGUUAGGC	CGAA IUGCAGGG	29373
5932	5098	UAUCGCGC U UAUGUAUG	10999	CAUACAUA CUGAUGAG	GCCGUUAGGC	CGAA ICGGAUA	29374
5944	5086	GUAUGAGC C GUUGGGCA	11000	UGCCCAAC CUGAUGAG	GCCGUUAGGC	CGAA ICUCAUAC	29375
5952	5078	CGUUGGGC A UUAUGACU	11001	AGUCAUAA CUGAUGAG	GCCGUUAGGC	CGAA ICCCAACG	29376
5960	5070	AUUAUGAC U CCAUUGCC	11002	GGCAAUGG CUGAUGAG	GCCGUUAGGC	CGAA IUCAUAAU	29377
5962	5068	UAUGACUC C AUUGCCAU	11003	AUGGCAAU CUGAUGAG	GCCGUUAGGC	CGAA IAGUCAUA	29378
5963	5067	AUGACUCC A UUGCCAUA	11004	UAUGGCAA CUGAUGAG	GCCGUUAGGC	CGAA IAGUCAU	29379
5968	5062	UCCAUGGC C AUAAAGCC	11005	GGCUUUAU CUGAUGAG	GCCGUUAGGC	CGAA ICAAUGGA	29380
5969	5061	CCAUUGCC A UAAAGCCC	11006	GGGCUUUA CUGAUGAG	GCCGUUAGGC	CGAA IGCAAUGG	29381
5976	5054	CAUAAAGC C CAUACACA	11007	UGUGAUUG CUGAUGAG	GCCGUUAGGC	CGAA ICUUUUUG	29382
5977	5053	AUAAAGCC C AAUCACAU	11008	AUGUGAUU CUGAUGAG	GCCGUUAGGC	CGAA IGCUUUAU	29383
5978	5052	UAAAGCCC A AUCACAUC	11009	GAUGUGAU CUGAUGAG	GCCGUUAGGC	CGAA IGGCUUUA	29384
5982	5048	GCCCAUUC A CAUACCCG	11010	CGGUGAUG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGGC	29385
5984	5046	CCAUCAC A UCACCGUU	11011	AACGUGA CUGAUGAG	GCCGUUAGGC	CGAA IUAUGUGG	29386
5987	5043	AUCACAUC A CCGUUUUU	11012	AAAAACGG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUAU	29387
5989	5041	CACAUAC C GUUUUUGU	11013	ACAAAAAC CUGAUGAG	GCCGUUAGGC	CGAA IUAUGUG	29388
5999	5031	UUUUUGUC C ACUAUUGG	11014	CCAAUAGU CUGAUGAG	GCCGUUAGGC	CGAA IACAAAAA	29389
6000	5030	UUUUGUCC A CUUUGGU	11015	ACCAAUAG CUGAUGAG	GCCGUUAGGC	CGAA IGACAAAA	29390
6002	5028	UUGUCCAC U AUUGGUGA	11016	UCACCAAU CUGAUGAG	GCCGUUAGGC	CGAA IUGGACAA	29391
6013	5017	UGGUGAGC C UGAUGUUC	11017	GAACAUCA CUGAUGAG	GCCGUUAGGC	CGAA ICUCACCA	29392
6014	5016	GGUGAGCC U GAUGUUC	11018	GGAACAUC CUGAUGAG	GCCGUUAGGC	CGAA IGCUCACC	29393
6022	5008	UGAUGUUC C AGUGGGGA	11019	UCCCCACU CUGAUGAG	GCCGUUAGGC	CGAA IAAACAUC	29394
6023	5007	GAUGUUC A GUGGGGAA	11020	UUCCCCAC CUGAUGAG	GCCGUUAGGC	CGAA IGAACAUC	29395
6035	4995	GGGAAGUC C AAAGUCAC	11021	GUGACUUU CUGAUGAG	GCCGUUAGGC	CGAA IACUCCCC	29396
6036	4994	GGAAGUCC A AAGUCACG	11022	CGUGACUU CUGAUGAG	GCCGUUAGGC	CGAA IGACUUC	29397
6042	4988	CCAAAGUC A CGGCCCG	11023	CGGGGCCG CUGAUGAG	GCCGUUAGGC	CGAA IACUUUGG	29398
6047	4983	GUCACGGC C CCGAUUUC	11024	GAAAUCCG CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGAC	29399
6048	4982	UCACGGCC C CGAUUUCU	11025	AGAAAUCC CUGAUGAG	GCCGUUAGGC	CGAA IGCCGUGA	29400
6049	4981	CACGGCCC C GAUUCUC	11026	GAGAAUCC CUGAUGAG	GCCGUUAGGC	CGAA IGGCCGUG	29401
6056	4974	CCGAUUUC U CCUUCAGG	11027	CCUGAAGG CUGAUGAG	GCCGUUAGGC	CGAA IAAAUCCG	29402
6058	4972	GAUUCUC C UUCAGGUG	11028	CACCUGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUUC	29403
6059	4971	AUUUCUCC U UCAGGUGU	11029	ACACCUGA CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAAU	29404
6062	4968	UCUCCUUC A GGUGUUUU	11030	AAAACACC CUGAUGAG	GCCGUUAGGC	CGAA IAAGGAGA	29405
6075	4955	UUUUGAAC A CCCUGGU	11031	ACCAGGGG CUGAUGAG	GCCGUUAGGC	CGAA IUUCAAUA	29406

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6077	4953	UUGAACAC C CCUGGUUU	11032	AAACCAGG CUGAUGAG	GCCGUUAGGC	CGAA	IUGUUCAA	29407
6078	4952	UGAACACC C CUGGUUUC	11033	GAAACCAG CUGAUGAG	GCCGUUAGGC	CGAA	IGUGUUCA	29408
6079	4951	GAACACCC C UGGUUCUG	11034	CGAAACCA CUGAUGAG	GCCGUUAGGC	CGAA	IGGUGUUC	29409
6080	4950	AACACCCC U GGUUUCGU	11035	ACGAAACC CUGAUGAG	GCCGUUAGGC	CGAA	IGGGUGUU	29410
6090	4940	GUUUCGUC U GGACGUUC	11036	GAACGUCC CUGAUGAG	GCCGUUAGGC	CGAA	IACGAAAC	29411
6099	4931	GGACGUUC U UAACGUUC	11037	GAACGUUA CUGAUGAG	GCCGUUAGGC	CGAA	IAACGUCC	29412
6108	4922	UAACGUUC U UGCCAGGU	11038	ACCUGGCA CUGAUGAG	GCCGUUAGGC	CGAA	IAACGUUA	29413
6112	4918	GUUCUUGC C AGGUUCCA	11039	UGGAACCU CUGAUGAG	GCCGUUAGGC	CGAA	ICAAGAAC	29414
6113	4917	UUCUUGCC A GGUUCCAC	11040	GUGGAACC CUGAUGAG	GCCGUUAGGC	CGAA	IGCAAGAA	29415
6119	4911	CCAGGUUC C ACCCAAU	11041	AUUGUGGU CUGAUGAG	GCCGUUAGGC	CGAA	IAACCUGG	29416
6120	4910	CAGGUUCC A CCACAAUC	11042	GAUUGUGG CUGAUGAG	GCCGUUAGGC	CGAA	IGAACCUG	29417
6122	4908	GGUCCACC C ACAUCAU	11043	AUGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAACC	29418
6123	4907	GUUCCACC A CAAUCAUC	11044	GAUGAUUG CUGAUGAG	GCCGUUAGGC	CGAA	IGUGGAAC	29419
6125	4905	UCCACCAC A AUCAUCUG	11045	CAGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGUGGA	29420
6129	4901	CCACAAUC A UCUGCACC	11046	GGUGCAGA CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGUGG	29421
6132	4898	CAUCAUC U GCACCUCA	11047	UGAGGUGC CUGAUGAG	GCCGUUAGGC	CGAA	IAUGAUUG	29422
6135	4895	UCAUCUGC A CCUCAUCC	11048	GGAUGAGG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGAUUA	29423
6137	4893	AUCUGCAC C UCAUCCUG	11049	CAGGAUGA CUGAUGAG	GCCGUUAGGC	CGAA	IUGCAGAU	29424
6138	4892	UCUGCACC U CAUCCUGC	11050	GCAGGAUG CUGAUGAG	GCCGUUAGGC	CGAA	IGUGCAGA	29425
6140	4890	UGCACCUC A UCCGCCCC	11051	GGCGAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGUGCA	29426
6143	4887	ACCUCAUC C UGCCCGUU	11052	AACGGGCA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGAGGU	29427
6144	4886	CCUCAUCC U GCCCGUUC	11053	GAACGGGC CUGAUGAG	GCCGUUAGGC	CGAA	IGAUGAGG	29428
6147	4883	CAUCCUGC C CGUCCAC	11054	GUGGAACG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGGAUG	29429
6148	4882	AUCCUGCC C GUUCCACU	11055	AGUGGAAC CUGAUGAG	GCCGUUAGGC	CGAA	IGCAGGAU	29430
6153	4877	GCCCGUUC C ACUUGUGC	11056	GCACAAGU CUGAUGAG	GCCGUUAGGC	CGAA	IAACGGGC	29431
6154	4876	CCCGUUC C CUUGUGCU	11057	AGCACAAG CUGAUGAG	GCCGUUAGGC	CGAA	IGAACGGG	29432
6156	4874	CGUCCAC U UGUGCUGC	11058	GCAGCACA CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAACG	29433
6162	4868	ACUUGUGC U GCAAUUUC	11059	GAAAUUGC CUGAUGAG	GCCGUUAGGC	CGAA	ICACAAGU	29434
6165	4865	UGUGCUGC A AUUCCAG	11060	CUGGAAAU CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCACA	29435
6171	4859	GCAAUUC C AGGGUCCU	11061	AGGACCCU CUGAUGAG	GCCGUUAGGC	CGAA	IAAAUUGC	29436
6172	4858	CAAUUC C GGGUCCUC	11062	GAGGACCC CUGAUGAG	GCCGUUAGGC	CGAA	IGAAUUG	29437
6178	4852	CCAGGGUC C UCCGUUAC	11063	GUUACGGA CUGAUGAG	GCCGUUAGGC	CGAA	IACCCUGG	29438
6179	4851	CAGGGUCC U CCGUAACA	11064	UGUUAACG CUGAUGAG	GCCGUUAGGC	CGAA	IGACCCUG	29439
6181	4849	GGGUCCUC C GUACAAA	11065	UUUGUUA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGACCC	29440
6187	4843	UCCGUUAC A AAGUCGAU	11066	AUCGACUU CUGAUGAG	GCCGUUAGGC	CGAA	IUUACGGA	29441
6197	4833	AGUGCAUC A UCCUUGAC	11067	GUCAAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAUCGACU	29442
6198	4832	GUCGAUCC U CCUUGACA	11068	UGUCAAGG CUGAUGAG	GCCGUUAGGC	CGAA	IAUCGAC	29443
6200	4830	CGAUCCUC C UUGACACU	11069	AGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGAUCG	29444
6201	4829	GAUCCUCC U UGACACUG	11070	CAGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGAUC	29445
6206	4824	UCCUUGAC A CUGCCCA	11071	UGGGGCG CUGAUGAG	GCCGUUAGGC	CGAA	IUCAAGGA	29446
6208	4822	CUUGACAC U GCCCCAGU	11072	ACUGGGGC CUGAUGAG	GCCGUUAGGC	CGAA	IUGUCAAG	29447
6211	4819	GACACUGC C CCAGUAUG	11073	CAUACUGG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGUC	29448
6212	4818	ACACUGCC C CAGUAUGG	11074	CCAUAUCG CUGAUGAG	GCCGUUAGGC	CGAA	IGCAGUGU	29449
6213	4817	CACUGCCC C AGUAUGGG	11075	CCCAUACU CUGAUGAG	GCCGUUAGGC	CGAA	IGGCAGUG	29450
6214	4816	ACUGCCCC A GUAUGGGU	11076	ACCAUAC CUGAUGAG	GCCGUUAGGC	CGAA	IGGGCAGU	29451
6224	4806	UAUGGGUC C AGGCGGCC	11077	GGCCGCCU CUGAUGAG	GCCGUUAGGC	CGAA	IACCCAUA	29452
6225	4805	AUGGGUCC A GGCGCCCC	11078	GGGCCGCC CUGAUGAG	GCCGUUAGGC	CGAA	IGACCCAU	29453
6232	4798	CAGGCGGC C CUCUCCGC	11079	GCGGAGAG CUGAUGAG	GCCGUUAGGC	CGAA	ICCGCCUG	29454
6233	4797	AGGCGGCC C UCUCGCU	11080	AGCGGAGA CUGAUGAG	GCCGUUAGGC	CGAA	IGCCGCCU	29455
6234	4796	GGCGGCC U CUCCGCUC	11081	GAGCGGAG CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCGCC	29456
6236	4794	CGGCCUCC U CCGCUCAU	11082	AUGAGCGG CUGAUGAG	GCCGUUAGGC	CGAA	IAGGGCCG	29457
6238	4792	GCCCUCC C GCUCAUCA	11083	UGAUGAGC CUGAUGAG	GCCGUUAGGC	CGAA	IAGAGGGC	29458
6241	4789	CUCUCCGC U CAUCAAAG	11084	CUUUGAUG CUGAUGAG	GCCGUUAGGC	CGAA	ICGGAGAG	29459
6243	4787	CUCCGCUC A UCAAAGCG	11085	CGCUUUGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGCGGAG	29460
6246	4784	CGCUCAUC A AAGCGGCU	11086	AGCCGCUU CUGAUGAG	GCCGUUAGGC	CGAA	IAUGAGCG	29461
6254	4776	AAAGCGGC U CCUUUGU	11087	ACAAAAGG CUGAUGAG	GCCGUUAGGC	CGAA	ICCGCUUU	29462
6256	4774	AGCGGCUC C UUUUGUUG	11088	CAACAAA CUGAUGAG	GCCGUUAGGC	CGAA	IAGCGGCU	29463
6257	4773	GCGGCUC U UUUUGUUG	11089	ACAACAAA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGCCGC	29464
6270	4760	UUGUAUGC C AAAGGGUG	11090	CACCCUUU CUGAUGAG	GCCGUUAGGC	CGAA	ICAUACAA	29465
6271	4759	UGUAUGCC A AAGGGUGU	11091	ACACCCUU CUGAUGAG	GCCGUUAGGC	CGAA	IGCAUACA	29466
6287	4743	UGGAAAC A CCUCAAC	11092	GUUGAAGG CUGAUGAG	GCCGUUAGGC	CGAA	IUUUUCCA	29467

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6289	4741	GAAAACAC C UUCAACCA	11093	UGGUUGAA CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUUC	29468
6290	4740	AAAACACC U UCAACCAU	11094	AUGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUGUUUU	29469
6293	4737	ACACCUUC A ACCAUCAC	11095	GUGAUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAAGGUGU	29470
6296	4734	CCUUC AAC C AUCACGCC	11096	GGCGUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAAGG	29471
6297	4733	CUUCAACC A UCACGCC	11097	GGCGUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUGAAG	29472
6300	4730	CAACCAUC A CGCCCGCU	11098	AGCGGGCG CUGAUGAG	GCCGUUAGGC	CGAA IAUGGUUG	29473
6304	4726	CAUCACGC C CGCUCUG	11099	CAGGAGCG CUGAUGAG	GCCGUUAGGC	CGAA ICGUGAUG	29474
6305	4725	AUCACGCC C GCUCUGC	11100	GCAGGAGC CUGAUGAG	GCCGUUAGGC	CGAA ICGUGAU	29475
6308	4722	ACGCCCGC U CCUGCUUG	11101	CAAGCAGG CUGAUGAG	GCCGUUAGGC	CGAA ICGGGCGU	29476
6310	4720	GCCCCGUC C UGUUGAU	11102	AUCAAGCA CUGAUGAG	GCCGUUAGGC	CGAA IAGCGGGC	29477
6311	4719	CCCGCUC U GCUGUAU	11103	UAUCAAGC CUGAUGAG	GCCGUUAGGC	CGAA IGAGCGGG	29478
6314	4716	GCUCUGC U UGAUAACU	11104	AGUUAUCA CUGAUGAG	GCCGUUAGGC	CGAA ICAGGAGC	29479
6322	4708	UUGAUAAC U GCGGACA	11105	UGCUCGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUAUCAA	29480
6325	4705	AUAACUGC C GAGCAGCC	11106	GGCUGCUC CUGAUGAG	GCCGUUAGGC	CGAA ICAGUUAU	29481
6330	4700	UGCCGAGC A GCCCAGCA	11107	UCGUGGGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCGGCA	29482
6333	4697	CGAGCAGC C CACGAGUC	11108	GACUCGUG CUGAUGAG	GCCGUUAGGC	CGAA ICUCGUCG	29483
6334	4696	GAGCAGCC C ACGAGUCA	11109	UGACUCGU CUGAUGAG	GCCGUUAGGC	CGAA ICGUCUC	29484
6335	4695	AGCAGCCC A CGAGUCAU	11110	AUGACUCG CUGAUGAG	GCCGUUAGGC	CGAA IGGCUGCU	29485
6342	4688	CACGAGUC A UGAUCCUG	11111	CAGGAUCA CUGAUGAG	GCCGUUAGGC	CGAA IACUCGUG	29486
6348	4682	UCAUGAUC C UGUAGACG	11112	CGCUACA CUGAUGAG	GCCGUUAGGC	CGAA IAUCAUGA	29487
6349	4681	CAUGAUCC U GUAGACGC	11113	GCGUCUAC CUGAUGAG	GCCGUUAGGC	CGAA IGAUCAUG	29488
6358	4672	GUAGACGC C GGUGGUCG	11114	CGACCACC CUGAUGAG	GCCGUUAGGC	CGAA ICGUCUAC	29489
6371	4659	GUCGUGUC C CCCUUUUU	11115	AAAAAGGG CUGAUGAG	GCCGUUAGGC	CGAA IACACGAC	29490
6372	4658	UCGUGUCC C CCUUUUUG	11116	CAAAAAGG CUGAUGAG	GCCGUUAGGC	CGAA IGACACGA	29491
6373	4657	CGUGUCCC C CUUUUUGU	11117	ACAAAAG CUGAUGAG	GCCGUUAGGC	CGAA IGGACACG	29492
6374	4656	GUGUCCCC C UUUUUGUA	11118	UACAAAA CUGAUGAG	GCCGUUAGGC	CGAA IGGACAC	29493
6375	4655	UGUCCCCC U UUUUGUAC	11119	GUACAAAA CUGAUGAG	GCCGUUAGGC	CGAA IGGGGACA	29494
6384	4646	UUUUUGAC U CCUUUGGU	11120	ACCAAAGG CUGAUGAG	GCCGUUAGGC	CGAA IUACAAAA	29495
6386	4644	UGUACUC C UUUGGUGA	11121	UCACCAA CUGAUGAG	GCCGUUAGGC	CGAA IAGUACAA	29496
6387	4643	UGUACUC U UUUGGUGAG	11122	CUACCAA CUGAUGAG	GCCGUUAGGC	CGAA IGAGUACA	29497
6404	4626	GGAGUGUC C CACAACAC	11123	GUGUUGUG CUGAUGAG	GCCGUUAGGC	CGAA IACACUCC	29498
6405	4625	GAGUGUCC C ACAACACG	11124	CGUGUUGU CUGAUGAG	GCCGUUAGGC	CGAA IGACACUC	29499
6406	4624	AGUGUCCC A CAACACGC	11125	GCGUGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGGACACU	29500
6408	4622	UGUCCAC A ACACGCCU	11126	AGCGUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGGACA	29501
6411	4619	CCCACAAC A CGCCUCCU	11127	AGGAGGCG CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGGG	29502
6415	4615	CAACACGC C UCCUCUCU	11128	AGAGAGGA CUGAUGAG	GCCGUUAGGC	CGAA ICGUGUUG	29503
6416	4614	AACACGCC U CCUCUCU	11129	AAGAGAGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUUU	29504
6418	4612	CACGCCUC C UCUCUUUG	11130	CAAAGAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGCGUG	29505
6419	4611	ACGCCUCC U CUCUUUGU	11131	ACAAAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGGCGU	29506
6421	4609	GCCUCCUC U CUUUGUGU	11132	ACACAAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGGC	29507
6423	4607	CUCUCUC U UUGUGUAU	11133	AUACACAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGAG	29508
6444	4586	GAGUUAUC C AAAAUCCA	11134	UGGAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IAUAAUCU	29509
6445	4585	AGUUAUCC A AAAUCCAA	11135	UUGGAUUU CUGAUGAG	GCCGUUAGGC	CGAA IGAUAACU	29510
6451	4579	CCAAAUC C AACUACUG	11136	CAGUAGU CUGAUGAG	GCCGUUAGGC	CGAA IAUUUUGG	29511
6452	4578	CAAAAUC A ACUACUGA	11137	UCAGUAGU CUGAUGAG	GCCGUUAGGC	CGAA IGAUUUUG	29512
6455	4575	AAUCCAAC U ACUGAGGG	11138	CCUCAGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAUU	29513
6458	4572	CCAACUAC U GAGGGCAA	11139	UUGCCUC CUGAUGAG	GCCGUUAGGC	CGAA IUAGUUGG	29514
6465	4565	CUGAGGGC A AGAUGGCC	11140	GGCAUUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCUCAG	29515
6473	4557	AAGAUUGC C CAGGGGUG	11141	ACCCCCUG CUGAUGAG	GCCGUUAGGC	CGAA ICAAUCU	29516
6474	4556	AGAUGGCC C AGGGGUG	11142	CACCCCU CUGAUGAG	GCCGUUAGGC	CGAA IGCAAUCU	29517
6475	4555	GAUUGCCC A GGGGUGU	11143	ACACCCC CUGAUGAG	GCCGUUAGGC	CGAA IGGCAAUC	29518
6488	4542	GUUACGC A CUAAUCGC	11144	GCGAUAG CUGAUGAG	GCCGUUAGGC	CGAA ICGUACAC	29519
6490	4540	GUACGCAC U AAUCGCGA	11145	UCGCAUU CUGAUGAG	GCCGUUAGGC	CGAA IUGCGUAC	29520
6502	4528	CGCAGAC A GACCAUUC	11146	GAAUGGUC CUGAUGAG	GCCGUUAGGC	CGAA IUCUCGCG	29521
6506	4524	AGACAGAC C AUUCUGAG	11147	CUCAGAAU CUGAUGAG	GCCGUUAGGC	CGAA IUCUGUCU	29522
6507	4523	GACAGACC A UUCUGAGC	11148	GCUCAGAA CUGAUGAG	GCCGUUAGGC	CGAA IGUCUGUC	29523
6511	4519	GACCAUUC U GAGCAUCC	11149	GGAUGCUC CUGAUGAG	GCCGUUAGGC	CGAA IAAUGGUC	29524
6516	4514	UUCUGAGC A UCCAUAUC	11150	GAUAUGGA CUGAUGAG	GCCGUUAGGC	CGAA ICUCAGAA	29525
6519	4511	UGAGCAUC C AUAUCUUC	11151	GAAGAUU CUGAUGAG	GCCGUUAGGC	CGAA IAGUCUA	29526
6520	4510	GAGCAUCC A UAUCUUC	11152	GGAAGAU CUGAUGAG	GCCGUUAGGC	CGAA IGAUGCUC	29527
6525	4505	UCCAUAUC U UCCAAGGU	11153	ACCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGA	29528

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6528	4502	AUAUCUUC C AAGGUGCU	11154	AGCACCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGAUAU	29529
6529	4501	UAUCUUC C AAGGUGCU	11155	GAGCACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGAU	29530
6536	4494	CAAGGUGC U CCUGGAUC	11156	GAUCCAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACCUUG	29531
6538	4492	AGGUGCUC C UGGAUCAU	11157	AUGAUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCACCU	29532
6539	4491	GGUGCUCC U GGAUCAU	11158	AAUGAUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGCACC	29533
6545	4485	CCUGGAUC A UUCAUGAG	11159	CUCAUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCCAGG	29534
6549	4481	GAUCAUUC A UGAGCUGG	11160	CCAGCUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUGAUC	29535
6555	4475	UCAUGAGC U GGAAGUUU	11161	AAACUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCAUGA	29536
6565	4465	GAAGUUUC C AUCAUCAU	11162	AUGAUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAACUUC	29537
6566	4464	AAGUUUC C AUCAUCAU	11163	GAUGAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACUUC	29538
6569	4461	UUUCCAUC A UCAUCAAG	11164	CUUGAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGGAA	29539
6572	4458	CCAUCAUC A UCAAGCCG	11165	CGGCUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGAUG	29540
6575	4455	UCAUCAUC A AGCCGCAC	11166	GUGCGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGAUGA	29541
6579	4451	CAUCAAGC C GCACAUC	11167	UGAUGUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGAUG	29542
6582	4448	CAAGCCGC A CAUCAACU	11168	AGUUGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGCUUG	29543
6584	4446	AGCCGCAC A UCAACUCU	11169	AGAGUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCGGCU	29544
6587	4443	CGACAUC A ACUCUUUC	11170	GAAAGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGCG	29545
6590	4440	ACAUCAAC U CUUUCGCU	11171	AGCGAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGAUGU	29546
6592	4438	AUCAACUC U UUCGUCG	11172	CGAGCGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUUGAU	29547
6598	4432	UCUUUCG C CGAGCCUG	11173	CAGGCUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAAAGA	29548
6604	4426	GCUCGAGC C UGUAAUUU	11174	AAAUUACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCGAGC	29549
6605	4425	CUCGAGCC U GUAAUUUC	11175	GAAAUUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUCGAG	29550
6614	4416	GUAAUUUC U GCAUCACU	11176	AGUGAUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAUUAC	29551
6617	4413	AUUUCUGC A UCACUUUC	11177	GAAAGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGAAAU	29552
6620	4410	UCUGCAUC A CUUCCCA	11178	UGGGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGCAGA	29553
6622	4408	UGCAUCAC U UUCCAGG	11179	CCUGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGAUGA	29554
6626	4404	UCACUUUC C CAGGAAAU	11180	AUUUCCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGUGA	29555
6627	4403	CACUUUC C AGGAAAU	11181	CAUUUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGUG	29556
6628	4402	ACUUUCCC A GGAAAUUG	11182	ACAUUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGUG	29557
6638	4392	GAAAUUG C GCGUUCU	11183	AGAACGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAUUUC	29558
6641	4389	AUGUCCGC C GUUCUCUC	11184	GAGAGAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGACAU	29559
6646	4384	CGCCGUUC U CUCAAUCC	11185	GGAUUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACGGCG	29560
6648	4382	CCGUUCUC U CAAUCCAC	11186	GUGGAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAACGG	29561
6650	4380	GUUCUCUC A AUCCACAU	11187	AUGUGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGAAC	29562
6654	4376	UCUCAUUC C ACAUAUCU	11188	AGAUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGAGA	29563
6655	4375	CUCAAUCC A CAUAUCUG	11189	CAGAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUUGAG	29564
6657	4373	CAAUCCAC A UAUCUGU	11190	AACAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAUUG	29565
6662	4368	CAUAUUC U GUUGAUUU	11191	AAAUCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGUG	29566
6672	4358	UUGAUUUC C CAGAAUUC	11192	GAUUUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAUCAA	29567
6673	4357	UGAUUUC C AGAAAUCA	11193	UGAUUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUAUCA	29568
6674	4356	GAUUUCCC A GAAAUAC	11194	GUGAUUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAAUUC	29569
6681	4349	CAGAAUUC A CGAAAGCA	11195	UGC UUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUUCUG	29570
6689	4341	ACGAAAGC A GCAAACAU	11196	AUGUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUUCUG	29571
6692	4338	AAAGCAGC A AACAUGAG	11197	CUCAUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUCUUU	29572
6696	4334	CAGCAAAC A UGAGCCC	11198	GGGGCUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUGCUG	29573
6702	4328	ACAUGAGC C CCGCAUA	11199	UAUCGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCAUGU	29574
6703	4327	CAUGAGCC C CGCAUAG	11200	CUAUCGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUCAUG	29575
6704	4326	AUGAGCCC C GCGAUAGU	11201	ACUAUCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCUCAU	29576
6714	4316	CGAUAGUC A UUGGAAUG	11202	CAUCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUAUCG	29577
6725	4305	GGAAUGGC C AUGGAGUC	11203	GACUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAUUCC	29578
6726	4304	GAAUGGCC A UGGAGUCA	11204	UGACUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCAUCU	29579
6734	4296	AUGGAGUC A AUGUCAAG	11205	CUUGACAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUCCA	29580
6740	4290	UCAAUUG C AGCUCUGC	11206	GCAGAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAUGA	29581
6744	4286	UGUCAAGC U CUGCCAGC	11207	GCUGGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUGACA	29582
6746	4284	UCAAGCUC U GCCAGCCC	11208	GGGCUGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCUUGA	29583
6749	4281	AGCUCUGC C AGCCUCC	11209	GGAGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGAGCU	29584
6750	4280	GCUCUGCC A GCCCUCG	11210	CGAGGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGAGC	29585
6753	4277	CUGCCAGC C CUCCGAGC	11211	CGUCGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGGCAG	29586
6754	4276	UGCCAGCC C UCCGACGA	11212	UCGUCGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUGGCA	29587
6755	4275	GCCAGCCC U CCGACGAU	11213	AUCGUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCUGG	29588
6757	4273	CAGCCUC C GACGAUGG	11214	CCAUCGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGGCUG	29589

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6767	4263	ACGAUGGC A AACAUUAG	11215	CUAAUGUU CUGAUGAG	GCCGUUAGGC	CGAA ICCAUCGU	29590
6771	4259	UGGCAAAC A UUAGGCCG	11216	CGGCCUAA CUGAUGAG	GCCGUUAGGC	CGAA IUUUGCCA	29591
6778	4252	CAUUAAGC C GACAGCUG	11217	CAGCUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICCUAAUG	29592
6782	4248	AGGCCGAC A GCUGUCAU	11218	AUGACAGC CUGAUGAG	GCCGUUAGGC	CGAA IUCGGCCU	29593
6785	4245	CCGACAGC U GUCAUCAC	11219	GUGAUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCGG	29594
6789	4241	CAGCUGUC A UCACUJCA	11220	UGAAGUGA CUGAUGAG	GCCGUUAGGC	CGAA IACAGCUG	29595
6792	4238	CUGUCAUC A CUUCAGUU	11221	AACUGAAG CUGAUGAG	GCCGUUAGGC	CGAA IAUACAG	29596
6794	4236	GUCAUCAC U UCAGUUGC	11222	GCAACUGA CUGAUGAG	GCCGUUAGGC	CGAA IUGAUGAC	29597
6797	4233	AUCACUUC A GUUGCGGG	11223	CCCACAAC CUGAUGAG	GCCGUUAGGC	CGAA IAAGUGAU	29598
6807	4223	UUGCGGGC C AUCCGCGU	11224	ACGCGGAU CUGAUGAG	GCCGUUAGGC	CGAA ICCCGCAA	29599
6808	4222	UGCGGGCC A UCCGCGUU	11225	AACGCGGA CUGAUGAG	GCCGUUAGGC	CGAA IGCCCGCA	29600
6811	4219	GGGCCAUC C GCGUUUAC	11226	GUAAACGC CUGAUGAG	GCCGUUAGGC	CGAA IAUGCCCC	29601
6830	4200	UUGGGAUC A CAUGCAAU	11227	AUUGCAUG CUGAUGAG	GCCGUUAGGC	CGAA IAUCCCAA	29602
6832	4198	GGGAUCAC A UGCAAUCA	11228	UGAUUGCA CUGAUGAG	GCCGUUAGGC	CGAA IUGAUCCC	29603
6836	4194	UCACAUGC A AUCAGUCC	11229	GGACUGAU CUGAUGAG	GCCGUUAGGC	CGAA ICAUGUGA	29604
6840	4190	AUGCAAUC A GUCCAGCA	11230	UGCUGGAC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGCAU	29605
6844	4186	AAUCAGUC C AGCAGCAA	11231	UUGCUGCU CUGAUGAG	GCCGUUAGGC	CGAA IACUGAUU	29606
6845	4185	AUCAGUCC A GCAGCAAG	11232	CUUGCUGC CUGAUGAG	GCCGUUAGGC	CGAA IGACUGAU	29607
6848	4182	AGUCCAGC A GCAAGGAU	11233	AUCCUUGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGGACU	29608
6851	4179	CCAGCAGC A AGGAUCAU	11234	AUGAUGCU CUGAUGAG	GCCGUUAGGC	CGAA ICUGCUGG	29609
6858	4172	CAAGGAUC A UGGGUGUG	11235	CAAAACCA CUGAUGAG	GCCGUUAGGC	CGAA IAUCCUUG	29610
6874	4156	GAAAAGUC C UGUUGAGG	11236	CCUCAACA CUGAUGAG	GCCGUUAGGC	CGAA IACUUUUC	29611
6875	4155	AAAAGUCC U GUUGAGGC	11237	GCCUCAAC CUGAUGAG	GCCGUUAGGC	CGAA IGACUUUU	29612
6884	4146	GUUGAGGC U AGAGCCAA	11238	UUGGCUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCUCAAC	29613
6890	4140	GCUAGAGC C AAGCAUAG	11239	CUAUGCUU CUGAUGAG	GCCGUUAGGC	CGAA ICUCUAGC	29614
6891	4139	CUAGAGCC A AGCAUAGC	11240	GCUAUGCU CUGAUGAG	GCCGUUAGGC	CGAA IGCUCUAG	29615
6895	4135	AGCCAAGC A UAGCAGAC	11241	GUCUGCUA CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGCU	29616
6900	4130	AGCAUAGC A GACUUGCU	11242	AGCAAGUC CUGAUGAG	GCCGUUAGGC	CGAA ICUAUGCU	29617
6904	4126	UAGCAGAC U UGCUCUUU	11243	AAGAGACA CUGAUGAG	GCCGUUAGGC	CGAA IUCUGCUA	29618
6908	4122	AGACUUGC U CCUUUCUU	11244	AAGAAAGG CUGAUGAG	GCCGUUAGGC	CGAA ICAAGUCU	29619
6910	4120	ACUUGCUC C UUUCUUUU	11245	AAAAGAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGCAAGU	29620
6911	4119	CUUGCUCU U UUCUUUUU	11246	AAAAGAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGCAAG	29621
6915	4115	CUCCUUUC U UUUUUGCA	11247	UGCAAAAA CUGAUGAG	GCCGUUAGGC	CGAA IAAAGGAG	29622
6923	4107	UUUUUUGC A GCUGACU	11248	AGUGCAGC CUGAUGAG	GCCGUUAGGC	CGAA ICAAAAAA	29623
6926	4104	UUUGCAGC U GCACUCCU	11249	AGGAGUGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGCAAA	29624
6929	4101	GCAGCUGC A CUCCUCUU	11250	AAGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGCUGC	29625
6931	4099	AGCUGCAC U CCUCUUCU	11251	AGAAGAGG CUGAUGAG	GCCGUUAGGC	CGAA IUCAGCU	29626
6933	4097	CUGCACUC C UCUCUCC	11252	GGAGAAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGCAG	29627
6934	4096	UGCACUCC U CUUCUCCC	11253	GGGAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGUGCA	29628
6936	4094	CACUCCUC U UCUCUCCU	11254	CAGGAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGUG	29629
6939	4091	UCCUCUUC U CCCUGAUC	11255	GAUCAAGG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAGG	29630
6941	4089	CUCUUCUC C CUGAUCAA	11256	UUGAUCAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGAG	29631
6942	4088	UCUUCUCC C UGAUCAAG	11257	CUUGAUCA CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAGA	29632
6943	4087	CUUCUCCC U GAUCAAGC	11258	GCUUGAUC CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAAG	29633
6948	4082	CCUGAUC A AGCUGCCU	11259	AGGCAGCU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGGG	29634
6952	4078	GAUCAAGC U GCCUAUUC	11260	GAAUAGGC CUGAUGAG	GCCGUUAGGC	CGAA ICUUGAUC	29635
6955	4075	CAAGCUGC C UAUUCCGA	11261	UCGGAUA CUGAUGAG	GCCGUUAGGC	CGAA ICAGCUUG	29636
6956	4074	AAGCUGCC U AUUCCGAC	11262	GUCGGAU CUGAUGAG	GCCGUUAGGC	CGAA ICAGCUU	29637
6961	4069	GCCUAUUC C GACCAUCA	11263	UGAUGGUC CUGAUGAG	GCCGUUAGGC	CGAA IAAUAGGC	29638
6965	4065	AUUCGAC C AUCAACAG	11264	CUGUUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUCGGAU	29639
6966	4064	UUCGACC A UCAACAGC	11265	GCUGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUCGGAA	29640
6969	4061	CGACCAUC A ACAGCAGU	11266	ACUGCUGU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUCG	29641
6972	4058	CCAACAAC A GCAGUAUC	11267	GAUACUGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUGG	29642
6975	4055	UCAACAGC A GUAUCCUG	11268	CAGGAUAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUUGA	29643
6981	4049	GCAGUAUC C UGUACACA	11269	UGUGUACA CUGAUGAG	GCCGUUAGGC	CGAA IAUACUGC	29644
6982	4048	CAGUAUCC U GUACACAU	11270	AUGUGUAC CUGAUGAG	GCCGUUAGGC	CGAA IGAUACUG	29645
6987	4043	UCCUGUAC A CAUCCAGA	11271	UCUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA IUACAGGA	29646
6989	4041	CUGUACAC A UCCAGAUU	11272	AAUCUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUGUACAG	29647
6992	4038	UACACAUC C AGAUUCA	11273	UUGAAUCU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUGA	29648
6993	4037	ACACAUC C GAUUCAAG	11274	CUUGAAUC CUGAUGAG	GCCGUUAGGC	CGAA IGAUGUGU	29649
6999	4031	CCAGAUUC A AGCAUCUC	11275	GAGAUGCU CUGAUGAG	GCCGUUAGGC	CGAA IAAUCUGG	29650

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7003	4027	AUUCAAGC A UCUCAGCC	11276	GGCUGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUUGAAU	29651
7006	4024	CAAGCAUC U CAGCCCGG	11277	CCGGGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGCUUG	29652
7008	4022	AGCAUCUC A GCCCGGGU	11278	ACCCGGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAUGCU	29653
7011	4019	AUCUCAGC C CGGGUGUU	11279	AACACCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGAGAU	29654
7012	4018	UCUCAGCC C GGGUGUUA	11280	UAACACCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCUGAGA	29655
7023	4007	GUGUAGC A GGGCUAGC	11281	GCUAGCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUAACAC	29656
7028	4002	AGCAGGGC U AGCAGCGG	11282	CCGCUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCCUGCU	29657
7032	3998	GGCUAGC A GCGGAACA	11283	UGUCCGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUAGCCC	29658
7040	3990	AGCGGAAC A ACCACGUU	11284	AACGUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUCGCGU	29659
7043	3987	GGAACAAC C ACGUUUGA	11285	UCAAACGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGUUCU	29660
7044	3986	GAACAACC A CGUUUGAU	11286	AUCAAACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUUGUUC	29661
7073	3957	GUUAUGGC U CUCAGUAU	11287	AUACUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCAUAAC	29662
7075	3955	UAUGGCUC U CAGUAUCA	11288	UGAUACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGCAUAU	29663
7077	3953	UGGCUCUC A GUAUCAUC	11289	GAUGAUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAGCCA	29664
7083	3947	UCAGUAUC A UCCAAGCU	11290	AGCUUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUACUGA	29665
7086	3944	GUAUCAUC C AAGCUACC	11291	GGUAGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGAUAC	29666
7087	3943	UAUCAUCC A AGCUACCG	11292	CGGUAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAUGAUA	29667
7091	3939	AUCCAAGC U ACCGCCAG	11293	CUGGCGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUUGGAU	29668
7094	3936	CAAGCUAC C GCCAGUGA	11294	UCACUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAGCUUG	29669
7097	3933	CGUACCGC C AGUGAAUU	11295	AAUUCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGCUAGC	29670
7098	3932	CUACCGCC A GUGAAUUC	11296	GAAUUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCGUAG	29671
7107	3923	GUGAAUUC A ACACAUCA	11297	UGAUGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAUUCAC	29672
7110	3920	AAUUCAAC A CAUCAGGG	11298	CCCUAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGAAUU	29673
7112	3918	UUCAACAC A UCAGGGAU	11299	AUCCUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGUUGAA	29674
7115	3915	AACAUAUC A GGGAUUCU	11300	GAGAUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGUGUU	29675
7122	3908	CAGGGAUC U CCCAGAGC	11301	GCUCUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUCCUG	29676
7124	3906	GGGAUCUC C CAGAGCAG	11302	CUGCUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAUCUU	29677
7125	3905	GGAUCUCC C AGAGCAGA	11303	UCUGCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAUAUCC	29678
7126	3904	GAUCUCCC A GAGCAGAA	11304	UUCUGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGAGAUU	29679
7131	3899	CCGAGAGC A GAAUUGG	11305	CCAAAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUCUGGG	29680
7145	3885	UGGCGGGC A UCGUGAUA	11306	UAUCACGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCCGCCA	29681
7157	3873	UGAUAGC C AUUUGAAA	11307	UUUCAAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUUAUCA	29682
7158	3872	GAUAAGCC A UUUGAAA	11308	CUUUCAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCUUAUC	29683
7172	3858	AAGAAAAC A GCCGCCAA	11309	UUGGCGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUUUCUU	29684
7175	3855	AAAACAGC C GCCAACAU	11310	AUGUUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGUUUU	29685
7178	3852	CAGCCCGC C AACAUCAA	11311	UUUGAUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGGUCUGU	29686
7179	3851	ACGCCGCC A ACAUCAAC	11312	GUGAUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCGCUG	29687
7182	3848	CCGCCAAC A UCAACAAA	11313	UUUGUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGGCCG	29688
7185	3845	CCAACAUC A ACAAUAUG	11314	CAUUUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGUUGG	29689
7188	3842	ACAUCAAC A AAUGUUC	11315	GAACAUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGAUGU	29690
7197	3833	AAAUUUC U CCUGGUUG	11316	CAACCAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAACAUUU	29691
7199	3831	AUGUUCUC C UGGUUGGU	11317	ACCAACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAACAU	29692
7200	3830	UGUUCUCC U GGUUGGUC	11318	GACCAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAGAACA	29693
7209	3821	GGUUGGUC C AUCUCGCU	11319	AGCGAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACCAACC	29694
7210	3820	GUUGGUCC A UCUCGCUU	11320	AAGCGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGACCAAC	29695
7213	3817	GUCCAUC U CGCUUGA	11321	UCAAAGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGGACC	29696
7217	3813	CAUCUCGC U UUGAGAAA	11322	UUUCUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGAGAUG	29697
7232	3798	AACGAUGC C ACCAUAAA	11323	UUUAUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAUCGUU	29698
7233	3797	ACGAUGCC A CCAUAAAC	11324	GUUUAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCAUCGU	29699
7235	3795	GAUGCCAC C AUAAACAC	11325	GUGUUUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGGCAUC	29700
7236	3794	AUGCCACC A UAAACACU	11326	AGUGUUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUGGCAU	29701
7242	3788	CCAUAAC A CUGGUUGU	11327	ACAACCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUUAUGG	29702
7244	3786	UAAACAC U GGUUGUAU	11328	AUACAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGUUUAU	29703
7254	3776	GUUGUAUC U UGAAGGUC	11329	GACCUUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUACAAC	29704
7265	3765	AAGGUCGC C AUGAGCGC	11330	GCGCUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGACCUU	29705
7266	3764	AGGUCGCC A UGAGCGCC	11331	GGCGCUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCGACCU	29706
7274	3756	AUGAGCGC C AAGUGUAC	11332	GUACACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGCUCAU	29707
7275	3755	UGAGCGCC A AGUGUACC	11333	GGUACACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCGCUCA	29708
7283	3747	AAGUGUAC C ACGUCUCC	11334	GGAGACGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUACACUU	29709
7284	3746	AGUGUACC A CGUCUCCU	11335	AGGAGACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUACACU	29710
7289	3741	ACCACGUC U CCUCCCGA	11336	UCGGGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACGUGGU	29711

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7291	3739	CACGUCUC C UCCCGAAU	11337	AUUCGGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGACGUG	29712
7292	3738	ACGUCUCC U CCCGAAU	11338	AAUUCGGG CUGAUGAG	GCCGUUAGGC	CGAA	IGAGACGU	29713
7294	3736	GUCUCCUC C CGAAUAG	11339	CUAUUCG CUGAUGAG	GCCGUUAGGC	CGAA	IAGGAGAC	29714
7295	3735	UCUCCUCC C GAAUAGA	11340	UCUAAUUC CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGAGA	29715
7307	3723	UUAGAUC U GCGAAAGC	11341	GCUUUCGC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUCUAA	29716
7316	3714	GCGAAAGC U GCGCCAC	11342	GUGGGGGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUUUCGC	29717
7319	3711	AAAGCUGC C CCCACCA	11343	UUGGUGGG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCUUU	29718
7320	3710	AAGCUGCC C CCACCAAG	11344	CUUGGUGG CUGAUGAG	GCCGUUAGGC	CGAA	IGCAGCUU	29719
7321	3709	AGCUGCCC C CACCAAGA	11345	UCUUGGUG CUGAUGAG	GCCGUUAGGC	CGAA	IGGCAGCU	29720
7322	3708	GCUGCCCC C ACCAAGAU	11346	AUCUUGGU CUGAUGAG	GCCGUUAGGC	CGAA	IGGGCAGC	29721
7323	3707	CUGCCCCC A CCAAGAUG	11347	CAUCUUGG CUGAUGAG	GCCGUUAGGC	CGAA	IGGGGCAG	29722
7325	3705	GCCCCCAC C AGAUGAC	11348	GUCAUUCU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGGGGC	29723
7326	3704	CCCCCACC A AGAUGACA	11349	UGUCAUCU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGGGGG	29724
7334	3696	AAGAUGAC A UAGCGUAA	11350	UUACGCUA CUGAUGAG	GCCGUUAGGC	CGAA	IUCAUCUU	29725
7344	3686	AGCGUAC A CAUCAGUG	11351	CACUGAUG CUGAUGAG	GCCGUUAGGC	CGAA	IUUACGCU	29726
7346	3684	CGUAACAC A UCAGUGUA	11352	UACACUGA CUGAUGAG	GCCGUUAGGC	CGAA	IUGUUACG	29727
7349	3681	AACACAUC A GUGUAAGU	11353	ACUUACAC CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUGUU	29728
7363	3667	AGUAAUGC C CCCAAACA	11354	UGUUUGGG CUGAUGAG	GCCGUUAGGC	CGAA	ICAUUACU	29729
7364	3666	GUAAUGCC C CCAAACAC	11355	GUGUUUGG CUGAUGAG	GCCGUUAGGC	CGAA	IGCAUUAU	29730
7365	3665	UAAUGCCC C CAAACACC	11356	GGUGUUUG CUGAUGAG	GCCGUUAGGC	CGAA	IGGCAUUA	29731
7366	3664	AAUGCCCC C AAACACCA	11357	UGGUGUUU CUGAUGAG	GCCGUUAGGC	CGAA	IGGGCAUU	29732
7367	3663	AUGCCCCC A AACACCAG	11358	CUGGUGUU CUGAUGAG	GCCGUUAGGC	CGAA	IGGGGCAU	29733
7371	3659	CCCCAAAC A CCAGGACU	11359	AGUCCUGG CUGAUGAG	GCCGUUAGGC	CGAA	IUUUGGGG	29734
7373	3657	CCAAACAC C AGGACUAG	11360	CUAGUCCU CUGAUGAG	GCCGUUAGGC	CGAA	IUGUUUGG	29735
7374	3656	CAAACACC A GGACUAGC	11361	GCUAGUCC CUGAUGAG	GCCGUUAGGC	CGAA	IGUGUUUG	29736
7379	3651	ACCAGGAC U AGCAGAGC	11362	GCUCUGCU CUGAUGAG	GCCGUUAGGC	CGAA	IUCCUGGU	29737
7383	3647	GGACUAGC A GAGCAAUC	11363	GAUUGCUC CUGAUGAG	GCCGUUAGGC	CGAA	ICUAGUCC	29738
7388	3642	AGCAGAGC A AUCAGUAU	11364	AUACUGAU CUGAUGAG	GCCGUUAGGC	CGAA	ICUCUGCU	29739
7392	3638	GAGCAUUC A GUUAAGCU	11365	AGCUAUAC CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGCUC	29740
7400	3630	AGUAUAGC U GGCAUGCU	11366	AGCAUGCC CUGAUGAG	GCCGUUAGGC	CGAA	ICUAUACU	29741
7404	3626	UAGCUGGC A UGCUGAUC	11367	GAUCAGCA CUGAUGAG	GCCGUUAGGC	CGAA	ICCAGCUA	29742
7408	3622	UGGCAUGC U GAUCUUGG	11368	CCAAGAUC CUGAUGAG	GCCGUUAGGC	CGAA	ICAUGCCA	29743
7413	3617	UGCUGAUC U UGGCUGUC	11369	GACAGCCA CUGAUGAG	GCCGUUAGGC	CGAA	IAUCAGCA	29744
7418	3612	AUCUUGGC U GUCCACCU	11370	AGGUGGAC CUGAUGAG	GCCGUUAGGC	CGAA	ICCAAGAU	29745
7422	3608	UGGCUGUC C ACCUCUUG	11371	CAAGAGGU CUGAUGAG	GCCGUUAGGC	CGAA	IACAGCCA	29746
7423	3607	GGCUGUCC A CCUCUUGC	11372	GCAAGAGG CUGAUGAG	GCCGUUAGGC	CGAA	IGACAGCC	29747
7425	3605	CUGUCCAC C UCUGCGA	11373	UCGCAAG CUGAUGAG	GCCGUUAGGC	CGAA	IGCCACAG	29748
7426	3604	UGUCCACC U CUUGCGAA	11374	UUCGCAAG CUGAUGAG	GCCGUUAGGC	CGAA	IGUGGACA	29749
7428	3602	UCCACCUC U UGCGAAGG	11375	CCUUCGCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGUGGA	29750
7439	3591	CGAAGGAC C UCCUGGGU	11376	ACCCAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IUCCUUCG	29751
7440	3590	GAAGGACC U CCUGGGUG	11377	CACCCAGG CUGAUGAG	GCCGUUAGGC	CGAA	IGUCCUUC	29752
7442	3588	AGGACCUC C UGGGUGGC	11378	GCCACCCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGUCCU	29753
7443	3587	GGACCUCC U GGGUGGCC	11379	GGCCACCC CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGUCC	29754
7451	3579	UGGGUGGC C AAGAACAC	11380	GUGUUCUU CUGAUGAG	GCCGUUAGGC	CGAA	ICCACCCA	29755
7452	3578	GGUGGGCC A AGAACACG	11381	CGUGUUCU CUGAUGAG	GCCGUUAGGC	CGAA	IGCCACCC	29756
7458	3572	CCAAGAAC A CGACCAGA	11382	UCUGGUCG CUGAUGAG	GCCGUUAGGC	CGAA	IUUCUUGG	29757
7463	3567	AACACGAC C AGAAGGCC	11383	GGCCUUCU CUGAUGAG	GCCGUUAGGC	CGAA	IUCUGUUU	29758
7464	3566	ACACGACC A GAAGGCC	11384	GGGCCUUC CUGAUGAG	GCCGUUAGGC	CGAA	IGUCGUGU	29759
7471	3559	CAGAAGGC C CAACUGAA	11385	UUCAGUUG CUGAUGAG	GCCGUUAGGC	CGAA	ICCUUCUG	29760
7472	3558	AGAAGGCC C AACUGAAA	11386	UUUCAGUU CUGAUGAG	GCCGUUAGGC	CGAA	IGCCUUCU	29761
7473	3557	GAAGGCCC A ACUGAAA	11387	UUUCAGU CUGAUGAG	GCCGUUAGGC	CGAA	IGCCUUC	29762
7476	3554	GGCCCAAC U GAAAAGGG	11388	CCCUUUCU CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGGCC	29763
7487	3543	AAAGGGUC A AUCAUAUC	11389	GAUAUGAU CUGAUGAG	GCCGUUAGGC	CGAA	IACCCUUU	29764
7491	3539	GGUCAUUC A UAUCAGCA	11390	UGCUGAUA CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGACC	29765
7496	3534	AUCAUAUC A GCAUUAUA	11391	UAUAUUGC CUGAUGAG	GCCGUUAGGC	CGAA	IAUAUGAU	29766
7499	3531	AUAUCAGC A UUAUAAGC	11392	GCUUAUAA CUGAUGAG	GCCGUUAGGC	CGAA	ICUGAUUU	29767
7508	3522	UUAUAAGC A UUCACUUG	11393	CAAGUGAA CUGAUGAG	GCCGUUAGGC	CGAA	ICUUAUAA	29768
7512	3518	AAGCAUUC A CUUGUGAC	11394	GUCACAAAG CUGAUGAG	GCCGUUAGGC	CGAA	IAAUGCUU	29769
7514	3516	GCAUUCAC U UGUGACUG	11395	CAGUCACA CUGAUGAG	GCCGUUAGGC	CGAA	IUGAAUGC	29770
7521	3509	CUUGUGAC U GCACGAGG	11396	CCUCGUGC CUGAUGAG	GCCGUUAGGC	CGAA	IUCACAAG	29771
7524	3506	GUGACUGC A CGAGGGUC	11397	GACCCUCG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUCAC	29772

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7533	3497	CGAGGGUC U UUUCAUCA	11398	UGAUGAAA CUGAUGAG	GCCGUUAGGC	CGAA IACCCUCG	29773
7538	3492	GUCUUUUC A UCAUGUCU	11399	AGACAUGA CUGAUGAG	GCCGUUAGGC	CGAA IAAAAGAC	29774
7541	3489	UUUUCAUC A UGUCUCUG	11400	CAGAGACA CUGAUGAG	GCCGUUAGGC	CGAA IAUGAAAA	29775
7546	3484	AUCAUGUC U CUGUGGUC	11401	GACCACAG CUGAUGAG	GCCGUUAGGC	CGAA IACAUGAU	29776
7548	3482	CAUGUCUC U GUGGUCUG	11402	CAGACCAC CUGAUGAG	GCCGUUAGGC	CGAA IAGACAUG	29777
7555	3475	CUGUGGUC U GAUCUCCA	11403	UGGAGAUC CUGAUGAG	GCCGUUAGGC	CGAA IACCACAG	29778
7560	3470	GUCUGAUC U CCAUACCA	11404	UGGUAUGG CUGAUGAG	GCCGUUAGGC	CGAA IAUCAAGC	29779
7562	3468	CUGAUCUC C AUACCAUA	11405	UAUGGUUAU CUGAUGAG	GCCGUUAGGC	CGAA IAGAUCAG	29780
7563	3467	UGAUCUCC A UACCAUAC	11406	GUUUGGUA CUGAUGAG	GCCGUUAGGC	CGAA IGAGAUCA	29781
7567	3463	CUCCAUAU C AUACCAAC	11407	GUUGGUUAU CUGAUGAG	GCCGUUAGGC	CGAA IUAUGGAG	29782
7568	3462	UCCAUAUCC A UACCAACA	11408	UGUUGGUA CUGAUGAG	GCCGUUAGGC	CGAA IGUAUGGA	29783
7572	3458	UACCAUAC C AACAGCCG	11409	CGGCGUUA CUGAUGAG	GCCGUUAGGC	CGAA IUAUGGUA	29784
7573	3457	ACCAUAUCC A ACAGCCGC	11410	CGGCGUUA CUGAUGAG	GCCGUUAGGC	CGAA IUUAUGGU	29785
7576	3454	AUACCAAC A GCCGCGUG	11411	ACAGCGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUUAU	29786
7579	3451	CCAACAGC C GCUGUCAG	11412	CUGACAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUUGG	29787
7582	3448	ACAGCCGC U GUCAGUUU	11413	AAACUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICGGCGUG	29788
7586	3444	CCGCGUCU A GUUUGGUA	11414	UACCAAAC CUGAUGAG	GCCGUUAGGC	CGAA IACAGCGG	29789
7599	3431	GGUAGCGC A GUGGUGGU	11415	ACCACCAC CUGAUGAG	GCCGUUAGGC	CGAA ICGCUACC	29790
7615	3415	UAAGGUGC A GCUCUCG	11416	GCAGGAGC CUGAUGAG	GCCGUUAGGC	CGAA ICACCUUA	29791
7618	3412	GGUGCAGC U CCUGCAGC	11417	GCUGCAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGCACC	29792
7620	3410	UGCAGCUC C UGCAGCAC	11418	GUGCUGCA CUGAUGAG	GCCGUUAGGC	CGAA IAGCUGCA	29793
7621	3409	GCAGCUCU U GCAGCACC	11419	GGUGCUGC CUGAUGAG	GCCGUUAGGC	CGAA IGAGCUGC	29794
7624	3406	GCUCUCGC A GCACCAAU	11420	AUUGGUGC CUGAUGAG	GCCGUUAGGC	CGAA ICAGGAGC	29795
7627	3403	CCUGCAGC A CCAUCUG	11421	CAGAUUGG CUGAUGAG	GCCGUUAGGC	CGAA ICUGCAGG	29796
7629	3401	UGCAGCAC C AAUCUGUU	11422	AACAGAUU CUGAUGAG	GCCGUUAGGC	CGAA IUGCUGCA	29797
7630	3400	GCAGCACC A AUCUGUUA	11423	UAACAGAU CUGAUGAG	GCCGUUAGGC	CGAA IGUGCUGC	29798
7634	3396	CACCAAUC U GUUAUCAA	11424	UUGAUAAU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGUG	29799
7641	3389	CUGUUAUC A ACUUCGCG	11425	CGGAAAGU CUGAUGAG	GCCGUUAGGC	CGAA IAUACAG	29800
7644	3386	UUAUAAU C UUCCGCUC	11426	GAGCGGAA CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUAA	29801
7648	3382	CAACUUUC C GCUCUCUG	11427	CAGAGAGC CUGAUGAG	GCCGUUAGGC	CGAA IAAAGUUG	29802
7651	3379	CUUUCGCG U CUCUGUGG	11428	CCACAGAG CUGAUGAG	GCCGUUAGGC	CGAA ICGGAAAG	29803
7653	3377	UUCGCGUC U CUGUGGUG	11429	CACCACAG CUGAUGAG	GCCGUUAGGC	CGAA IAGCGGAA	29804
7655	3375	CCGCUUCU U GUGGUGGU	11430	ACCACCAC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGCGG	29805
7673	3357	CGAGUGGC A GGUCCACG	11431	CGUGGACC CUGAUGAG	GCCGUUAGGC	CGAA ICCACUCG	29806
7678	3352	GGCAGGUC C ACGGUGUC	11432	GACACCGU CUGAUGAG	GCCGUUAGGC	CGAA IACCUGCC	29807
7679	3351	GCAGGUC A CGGUGUCC	11433	GGACACCG CUGAUGAG	GCCGUUAGGC	CGAA IGACUGGC	29808
7687	3343	ACGGUGUC C GCAGUCU	11434	AGAGCUGC CUGAUGAG	GCCGUUAGGC	CGAA IACACCGU	29809
7690	3340	GUGUCCGC A GCUCUCAC	11435	GUGAGAGC CUGAUGAG	GCCGUUAGGC	CGAA ICGGACAC	29810
7693	3337	UCCGAGC U CUCACUCA	11436	UGAGUGAG CUGAUGAG	GCCGUUAGGC	CGAA ICUGCGGA	29811
7695	3335	CGCAGCUC U CACUCAGG	11437	CCUGAGUG CUGAUGAG	GCCGUUAGGC	CGAA IAGCUGCG	29812
7697	3333	CAGCUCUC A CUCAGGGU	11438	ACCCUGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGCUG	29813
7699	3331	GCUCUCAC U CAGGGUGA	11439	UCACCCUG CUGAUGAG	GCCGUUAGGC	CGAA IUGAGAGC	29814
7701	3329	UCUCACUC A GGGUGACC	11440	GGUCACCC CUGAUGAG	GCCGUUAGGC	CGAA IAGUGAGA	29815
7709	3321	AGGGUGAC C GUAGUCC	11441	GGAACTUAC CUGAUGAG	GCCGUUAGGC	CGAA IUCACCCU	29816
7717	3313	CGUAGUUC C UGGGAGU	11442	ACUGCCCA CUGAUGAG	GCCGUUAGGC	CGAA IAACUACG	29817
7718	3312	GUAGUUCU U GGGCAGUA	11443	UACUGCCC CUGAUGAG	GCCGUUAGGC	CGAA IGAACUAC	29818
7723	3307	UCCUGGGC A GUAAUCGA	11444	UCGAUUAU CUGAUGAG	GCCGUUAGGC	CGAA ICCAGGA	29819
7736	3294	UCGAAGUC A AUCUCUAC	11445	GUAGAGAU CUGAUGAG	GCCGUUAGGC	CGAA IACUUCGA	29820
7740	3290	AGUCAAUU C CUACCCGG	11446	CCGGGUAG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGACU	29821
7742	3288	UCAAUUCU U ACCCGGCC	11447	GGCCGGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGAUUGA	29822
7745	3285	AUCUCUAC C CGGCCUUC	11448	GAAGGCCG CUGAUGAG	GCCGUUAGGC	CGAA IUAGAGAU	29823
7746	3284	UCUCUACC C GGCCUUCG	11449	CGAAGGCC CUGAUGAG	GCCGUUAGGC	CGAA IGUAGAGA	29824
7750	3280	UACCCGGC C UUCGUCCC	11450	GGGACGAA CUGAUGAG	GCCGUUAGGC	CGAA ICCGGGUA	29825
7751	3279	ACCCGGCC U UCGUCCCA	11451	UGGGACGA CUGAUGAG	GCCGUUAGGC	CGAA IGCCGGGU	29826
7757	3273	CCUUCGUC C CAUGGGCC	11452	GGCCCAUG CUGAUGAG	GCCGUUAGGC	CGAA IACGAAGG	29827
7758	3272	CUUCGUCC C AUGGGCCC	11453	GGGCCCAU CUGAUGAG	GCCGUUAGGC	CGAA IGACGAAG	29828
7759	3271	UUCGUCCC A UGGGCCC	11454	AGGGCCCA CUGAUGAG	GCCGUUAGGC	CGAA IGGACGAA	29829
7765	3265	CCAUGGGC C CUGGUUUU	11455	AAAACCAG CUGAUGAG	GCCGUUAGGC	CGAA ICCCAUGG	29830
7766	3264	CAUGGGCC C UGGUUUUG	11456	CAAAACCA CUGAUGAG	GCCGUUAGGC	CGAA IGCCCAUG	29831
7767	3263	AUGGGCCC U GGUUUUGU	11457	ACAAACCC CUGAUGAG	GCCGUUAGGC	CGAA IGGCCCAU	29832
7779	3251	UUUGUGUC U UGUACCCA	11458	UGGGUACA CUGAUGAG	GCCGUUAGGC	CGAA IACACAAA	29833

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7785	3245	UCUUGUAC C CAGGUCUC	11459	GAGACCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACAAGA	29834
7786	3244	CUUGUACC C AGGUCUCC	11460	GGAGACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUACAAG	29835
7787	3243	UUGUACCC A GGUCUCCG	11461	CGGAGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUACAA	29836
7792	3238	CCCAGGUC U CCGAUUGU	11462	ACAAUCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCUGGG	29837
7794	3236	CAGGUCUC C GAUUGUGA	11463	UCACAAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGACCUG	29838
7807	3223	GUGAUUGC U UCGUGGUC	11464	GACCACGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAUAC	29839
7816	3214	UCGUGGUC C CGCCAGUG	11465	CACUGGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCACGA	29840
7817	3213	CGUGGUCC C GCCAGUGU	11466	ACACUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACCACG	29841
7820	3210	GGUCCCGC C AGUGUGAC	11467	GUCACACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGGACC	29842
7821	3209	GUCCCGCC A GUGUGACU	11468	AGUCACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGGGAC	29843
7829	3201	AGUGUGAC U GGUUAUUA	11469	AUAUAUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCACACU	29844
7839	3191	GUUAUAUC A AGUCACUC	11470	GAGUGACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAAUAC	29845
7844	3186	AUCAAGUC A CUCUCAAG	11471	CUUGAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUUGAU	29846
7846	3184	CAAGUCAC U CUCAAGGA	11472	UCCUUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGACUUG	29847
7848	3182	AGUCACUC U CAAGGAUU	11473	AAUCCUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGACU	29848
7850	3180	UCACUCUC A AGGAUUC	11474	GGAAUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGUGA	29849
7858	3172	AAGGAUUC C AUCGCCCC	11475	GGGGCGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUCCUU	29850
7859	3171	AGGAUUC C AUCGCCCC	11476	UGGGGCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUCCUU	29851
7864	3166	UCCAUCGC C CCACAAGG	11477	CCUUGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAUGGA	29852
7865	3165	CCAUCGCC C CACAAGGU	11478	ACCUUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCGAUGG	29853
7866	3164	CAUCGCCC C ACAAGGUA	11479	UACCUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCGAUG	29854
7867	3163	AUCGCCCC A CAAGGUAU	11480	AUACCUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGCGAU	29855
7869	3161	CGCCCCAC A AGGUAUGC	11481	GCAUACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGGGCG	29856
7881	3149	UAUGCGUC U CAGGCCAC	11482	GUGGCCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGCAUA	29857
7883	3147	UGCUGUC C GGCCACGU	11483	ACGUGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGACGCA	29858
7887	3143	UCUCAGGC C ACGUACAU	11484	AUGUACGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUGAGA	29859
7888	3142	CUCAGGCC A CGUACAUG	11485	CAUGUACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCUGAG	29860
7894	3136	CCACGUAC A UGAUUGA	11486	UCAAUAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACGUGG	29861
7904	3126	GAUUGUAC U UCACCCAG	11487	CUGGGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAAUUC	29862
7907	3123	UUGACUUC A CCCAGAAC	11488	GUUCUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGCAA	29863
7909	3121	GACUUCAC C CAGAACUG	11489	CAGUUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAAGUC	29864
7910	3120	ACUUCACC C AGAACUGC	11490	GCAGUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGAAGU	29865
7911	3119	CUUCACCC A GAACUGCC	11491	GGCAGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUGAAG	29866
7916	3114	CCCAGAAC U GCCCUUUC	11492	GAAAGGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUGGG	29867
7919	3111	AGAACUGC C CUUUAAG	11493	CUUGAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUUCU	29868
7920	3110	GAACUGCC C UUUAAGC	11494	GCUUGAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAGUUC	29869
7921	3109	AACUGCCC U UUCAAGCU	11495	AGCUUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCAGUU	29870
7925	3105	GCCCUUUC A AGCUUCCA	11496	UGGAAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGGGC	29871
7929	3101	UUUCAAGC U UCCACGUA	11497	UACGUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUGAAA	29872
7932	3098	CAAGCUUC C ACGUAUCA	11498	UGAUACGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGCUUG	29873
7933	3097	AAGCUUCC A CGUAUCAU	11499	AUGAUACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGCUU	29874
7940	3090	CACGUUUC A UUGAGCCU	11500	AGGCUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUACGUG	29875
7947	3083	CAUUGAGC C UGCUUCA	11501	UGAAAGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCAUUG	29876
7948	3082	AUUGAGCC U GCUUCAA	11502	UUGAAAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUCAAU	29877
7951	3079	GAGCCUGC U UUCAAUCC	11503	GGAUUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGGCUC	29878
7955	3075	CUGCUUUC A AUCCAUA	11504	UAUUGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGCAG	29879
7959	3071	UUUCAUUC C AAUAGGAC	11505	GUCCUAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGAAA	29880
7960	3070	UUCAAUCC A AUAGGACA	11506	UGUCCUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUUGAA	29881
7968	3062	AAUAGGAC A GGUCACUG	11507	CAGUGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCUAUU	29882
7973	3057	GACAGGUC A CUGUGGAU	11508	AUCCACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCUGUC	29883
7975	3055	CAGGUCAC U GUGGAUCG	11509	CGAUCCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGACCUG	29884
7985	3045	UGGAUCGC C AAGUUGUU	11510	AACAACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAUCCA	29885
7986	3044	GGAUCCGC A AGUUGUUC	11511	GAACAACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCGAUCC	29886
7995	3035	AGUUGUUC U UGACAGCC	11512	GGUGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAACAACU	29887
8000	3030	UUUUUGAC A GCCGUUCC	11513	GGAAACGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAAGAA	29888
8003	3027	UUGACAGC C GUUCCAUA	11514	AUUGGAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGUCAA	29889
8008	3022	AGCCGUUC C AAUGAUCU	11515	AGAUAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACGGCU	29890
8009	3021	GCCGUUCC A AUGAUCUU	11516	AAGAUAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACGGC	29891
8016	3014	CAAUGAUC U UCGAGUCA	11517	UGACUCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCAUUG	29892
8024	3006	UUCGAGUC A CAUUCAGU	11518	ACUGAAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUCGAA	29893
8026	3004	CGAGUCAC A UUCAGUUG	11519	CAACUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGACUCG	29894

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8030	3000	UCACAUUC A GUUGUGUU	11520	AACACAAC CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUGA	29895
8041	2989	UGUGUUGC U CUCUCUGA	11521	UCAGAGAG CUGAUGAG	GCCGUUAGGC	CGAA ICAACACA	29896
8043	2987	UGUUGCUC U CUCUGACC	11522	GGUCAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGCAACA	29897
8045	2985	UUGCUCUC U CUGACCUU	11523	AAGGUCAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGCAA	29898
8047	2983	GCUCUCUC U GACCUUCA	11524	UGAAGGUC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGAGC	29899
8051	2979	UCUCUGAC C UUCAGGAA	11525	UUCUCGAA CUGAUGAG	GCCGUUAGGC	CGAA IUCAGAGA	29900
8052	2978	CUCUGACC U UCAGGAAC	11526	GUUCUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUCAGAG	29901
8055	2975	UGACCUUC A GGAACAUC	11527	GAUGUUC CUGAUGAG	GCCGUUAGGC	CGAA IAAGGUCA	29902
8061	2969	UCAGGAAC A UCCGAGUG	11528	CACUCGGA CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUGA	29903
8064	2966	GGAACAUC C GAGUGCUG	11529	CAGCACUC CUGAUGAG	GCCGUUAGGC	CGAA IAUUUUCC	29904
8071	2959	CCGAGUGC U GGUGAGAC	11530	GUCUCACC CUGAUGAG	GCCGUUAGGC	CGAA ICACUCGG	29905
8080	2950	GGUGAGAC C AAAUCCAA	11531	UUGGAUUU CUGAUGAG	GCCGUUAGGC	CGAA IUCUCACC	29906
8081	2949	GUGAGACC A AAUCCAAA	11532	UUUGGAUU CUGAUGAG	GCCGUUAGGC	CGAA IAUUCAC	29907
8086	2944	ACCAAAUC C AAAAUCCU	11533	AGGAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IAUUUGGU	29908
8087	2943	CCAAAUCC A AAAUCCUC	11534	GAGGAUUU CUGAUGAG	GCCGUUAGGC	CGAA IGAUUUGG	29909
8093	2937	CCAAAUC C UCCACUUC	11535	GAAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUUUGG	29910
8094	2936	CAAAAUCC U CCACUUCU	11536	AGAAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IGAUUUUG	29911
8096	2934	AAAUCCUC C ACUUCUAA	11537	UUAGAAGU CUGAUGAG	GCCGUUAGGC	CGAA IAGGAUUU	29912
8097	2933	AAUCCUCC A CUUCUAG	11538	CUUAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGGAUUU	29913
8099	2931	UCCUCCAC U UCUAAGCU	11539	AGCUUAGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGGA	29914
8102	2928	UCCAUUC U AAGCUAUU	11540	AAUAGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUGA	29915
8107	2923	UUUAAGC U AUUCCAAG	11541	CUUGGAUU CUGAUGAG	GCCGUUAGGC	CGAA ICUUAGAA	29916
8112	2918	AGCUAUUC C AAGCGCGA	11542	UCGCGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAAUAGCU	29917
8113	2917	GTUAUUC A AGCGCGAU	11543	AUCGCGCU CUGAUGAG	GCCGUUAGGC	CGAA IGAUAGC	29918
8124	2906	CGCGAUUC U GAGUCGGA	11544	UCCGACUC CUGAUGAG	GCCGUUAGGC	CGAA IAAUCGCG	29919
8134	2896	AGUCGGAC A UUCUUGG	11545	CCAAGGAA CUGAUGAG	GCCGUUAGGC	CGAA IUCCGACU	29920
8138	2892	GGACAUUC C UUGGUCUC	11546	GAGACCAA CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUCC	29921
8139	2891	GACAUUCC U UGGUCUCC	11547	GGAGACCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGUC	29922
8145	2885	CCUUGGUC U CCGGACCA	11548	UGGUCGG CUGAUGAG	GCCGUUAGGC	CGAA IACCAAGG	29923
8147	2883	UUGGUCUC C GGACCAUC	11549	GAUGGUCC CUGAUGAG	GCCGUUAGGC	CGAA IAGACCAA	29924
8152	2878	CUCCGGAC C AUCAACCA	11550	UGGUUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUCCGGAG	29925
8153	2877	UCCGGACC A UCAACCAC	11551	GUGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUCGGGA	29926
8156	2874	GGACCAUC A ACCACAAA	11552	UUUGUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGUCC	29927
8159	2871	CAUCAAC C ACAAGGU	11553	ACCUUUGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUGG	29928
8160	2870	CAUCAACC A CAAAGGUG	11554	CACCUUUG CUGAUGAG	GCCGUUAGGC	CGAA IGUUGAUG	29929
8162	2868	UCAACCAC A AAGGUGUU	11555	AACACCUU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUUGA	29930
8183	2847	GCGUGUC U GGUGCAA	11556	UUUGGACC CUGAUGAG	GCCGUUAGGC	CGAA IAGUCGCG	29931
8189	2841	UCUGGUGC A AAUAAAUA	11557	AUUUUAUU CUGAUGAG	GCCGUUAGGC	CGAA ICACCAGA	29932
8200	2830	UAAAUAUC U CUUCCCC	11558	GGGGAAG CUGAUGAG	GCCGUUAGGC	CGAA IUAUUUA	29933
8202	2828	AAUAUCUC U UUCCCCAG	11559	CUGGGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGUAUUU	29934
8206	2824	ACUCUUUC C CCAGGCCU	11560	AGGCCUGG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAGU	29935
8207	2823	CUCUUUC C CAGGCCUU	11561	AAGGCCUG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAG	29936
8208	2822	UCUUUCCC C AGGCCUUC	11562	GAAGGCCU CUGAUGAG	GCCGUUAGGC	CGAA IGGAAAGA	29937
8209	2821	CUUUCCCC A GGCCUUC	11563	GGAAGGCC CUGAUGAG	GCCGUUAGGC	CGAA IGGAAAG	29938
8213	2817	CCCCAGC C UCCAGCC	11564	GGCUGGAA CUGAUGAG	GCCGUUAGGC	CGAA ICCUGGGG	29939
8214	2816	CCCAGGCC U UCCAGCCA	11565	UGGCUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGCCUGGG	29940
8217	2813	AGGCCUUC C AGCCAUAU	11566	AAUUGGCU CUGAUGAG	GCCGUUAGGC	CGAA IAAGGCCU	29941
8218	2812	GGCCUUC A GCCAAUUU	11567	AAAUUGGC CUGAUGAG	GCCGUUAGGC	CGAA IGAAGGCC	29942
8221	2809	CUCCAGC C AAUUCCA	11568	UGGAAAUU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGAAG	29943
8222	2808	UCCAGCC A AUUCCAA	11569	UUGGAAAU CUGAUGAG	GCCGUUAGGC	CGAA IGUGGAA	29944
8228	2802	CCAAUUUC C AAUUUUUC	11570	GAAAAAUU CUGAUGAG	GCCGUUAGGC	CGAA IAAAUUGG	29945
8229	2801	CAAUUUUC A AUUUUUUC	11571	GGAAAAU CUGAUGAG	GCCGUUAGGC	CGAA IGAUUUG	29946
8237	2793	AAUUUUUC C GUGGUGGC	11572	GCCACCAC CUGAUGAG	GCCGUUAGGC	CGAA IAAAAUU	29947
8264	2766	UUAAGGUC U GACUUGUA	11573	UACAAGUC CUGAUGAG	GCCGUUAGGC	CGAA ICACCUAA	29948
8268	2762	GUGCUGAC U UGUACAUU	11574	AAUGUACA CUGAUGAG	GCCGUUAGGC	CGAA IUCAGCAC	29949
8274	2756	ACUUGUAC A UUCCUCC	11575	GGAGGGAA CUGAUGAG	GCCGUUAGGC	CGAA IUACAAGU	29950
8278	2752	GUACAUUC C CUCCUGUU	11576	AACAGGAG CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUAC	29951
8279	2751	UACAUUC C UCCUGUUU	11577	AAACAGGA CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGUA	29952
8280	2750	ACAUUC C CUUGUUUC	11578	GAAACAGG CUGAUGAG	GCCGUUAGGC	CGAA IGGAAUGU	29953
8282	2748	AUUCUUC C UGUUUCUC	11579	GAGAAACA CUGAUGAG	GCCGUUAGGC	CGAA IAGGGAU	29954
8283	2747	UUCUUC C GUUUCUA	11580	UGAGAAAC CUGAUGAG	GCCGUUAGGC	CGAA IAGGGAA	29955

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8289	2741	CCUGUUUC U CAACCACG	11581	CGUGGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAACAGG	29956
8291	2739	UGUUUCUC A ACCACGAC	11582	GUCGUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAAACA	29957
8294	2736	UUCUCAAC C ACGACACU	11583	AGUGUCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGAGAA	29958
8295	2735	UCUCAACC A CGACACUA	11584	UAGUGUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUGAGA	29959
8300	2730	ACCACGAC A CUAAGGUC	11585	GACCUUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGUGGU	29960
8302	2728	CACGACAC U AAGGUCCA	11586	UGGACCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUCGUG	29961
8309	2721	CUAAGGUC C ACACCAU	11587	AAUGGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCUUAG	29962
8310	2720	UAAGGUCC A CACCAUUC	11588	GAAUGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACCUUA	29963
8312	2718	AGGUCCAC A CCAUUCUC	11589	GAGAAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGACCU	29964
8314	2716	GUCCACAC C AUUCUCCU	11590	AGGAGAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUGGAC	29965
8315	2715	UCCACACC A UUCUCCU	11591	AAGGAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUGGA	29966
8319	2711	CACCAUUC U CCUUCAAA	11592	UUUGAAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUGGUG	29967
8321	2709	CCAUUCUC C UUCAAAAG	11593	CUUUUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAAGUG	29968
8322	2708	CAUUCUCC U UCAAAAAGA	11594	UCUUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGAAUG	29969
8325	2705	UCUCCUUC A AAAGAGUG	11595	CACUCUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGGAGA	29970
8337	2693	GAGUGUUC A GCUCGUCC	11596	GGACGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACACUC	29971
8340	2690	UGUUCAGC U CGUCCUUC	11597	GAAGGACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGAACA	29972
8345	2685	AGCUCGUC C UUCACUGC	11598	GCAGUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGAGCU	29973
8346	2684	GCUCGUCC U UCAUCGCU	11599	AGCAGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACGAGC	29974
8349	2681	CGUCCUUC A CUGCUUCC	11600	GGAAGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGGACG	29975
8351	2679	UCCUUCAC U GCUUCCCA	11601	UGGGAAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAAGGA	29976
8354	2676	UUCACUGC U UCCACAUC	11602	AUGUGGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUGAA	29977
8357	2673	ACUGCUUC C CACAUIUG	11603	CAAUUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGCAGU	29978
8358	2672	CUGCUUCC C ACAUIUGA	11604	UCAAAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGCAG	29979
8359	2671	UGCUUCCC A CAUUIUGAU	11605	AUCAAAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAAGCA	29980
8361	2669	CUUCCAC A UUUGAUGC	11606	GCAUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGGAAG	29981
8370	2660	UUUGAUGC U CCAGUCUG	11607	CAGACUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUCAA	29982
8372	2658	UGAUGCUC C AGUCUGGA	11608	UCCAGACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCAUCA	29983
8373	2657	GAUGCUCC A GUCUGGAA	11609	UCCAGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCAUC	29984
8377	2653	CUCGAGUC U GGAAACUG	11610	CAGUUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUGGAG	29985
8384	2646	CUGGAAAC U GAUCGUAG	11611	CUACGAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCCAG	29986
8395	2635	UCGUAGAC C GCACACUC	11612	GAGUGUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUACGA	29987
8398	2632	UAGACCGC A CACUCCU	11613	AAGGAGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGUCUA	29988
8400	2630	GACCGCAC A CUCCUCC	11614	GGAAGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCGGUC	29989
8402	2628	CCGCACAC U CCUCCU	11615	AAGGAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUGCGG	29990
8404	2626	GCACACUC C UCCUUAU	11616	AUAAGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGGUC	29991
8405	2625	CACACUCC U UCCUUAUG	11617	CAUAAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGUG	29992
8408	2622	ACUCCUUC C UUAUGAGC	11618	GCUCAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGGAGU	29993
8409	2621	CUCCUUC U UAUGAGCU	11619	AGCUCAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGGAG	29994
8417	2613	UUAUGAGC U UUCUGAAU	11620	AUUCAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCAUA	29995
8421	2609	GAGCUUUC U GAAUGAUC	11621	GAUCAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGCUC	29996
8430	2600	GAAUGAUC U UGGCUAGG	11622	CCUAGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCAUUC	29997
8435	2595	AUCUUGGC U AGGCCUUG	11623	CAAGGCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAAGAU	29998
8440	2590	GGCUAGGC C UUGUGGCG	11624	CGCCACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUAGCC	29999
8441	2589	GCUAGGCC U UGUGGCGU	11625	ACGCCACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCUAGC	30000
8453	2577	GGCGUUUC A GGUAAUA	11626	UAUUACCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAACGCC	30001
8463	2567	GGUAAUAC U UGUACCGG	11627	CCGGUACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUUACC	30002
8469	2561	ACUUGUAC C GGUCCAUC	11628	GAUGGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACAAGU	30003
8474	2556	UACGGGUC C AUCCAAGC	11629	GCUUGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCGGUA	30004
8475	2555	ACCGGUCC A UCCAAGCC	11630	GGCUUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACCGGU	30005
8478	2552	GGUCCAUC C AAGCCUCC	11631	GGAGGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGGACC	30006
8479	2551	GUCCAUC A AGCCUCCA	11632	UGGAGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUGGAC	30007
8483	2547	AUCCAAGC C UCCACAUC	11633	GAUGUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUGGAU	30008
8484	2546	UCCAAGCC U CCACAUCA	11634	UGAUGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUGGA	30009
8486	2544	CAAGCCUC C ACAUCAU	11635	AAUGAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGCUUG	30010
8487	2543	AAGCCUCC A CAUCAUUG	11636	CAAUGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGCUU	30011
8489	2541	GCCUCCAC A UCAUUGUG	11637	CACAAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAGGC	30012
8492	2538	UCCACAUC A UUGUGUAU	11638	AUACACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGUGGA	30013
8505	2525	GUAUGAAC A CUCCAUU	11639	AAGUGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCAUAC	30014
8507	2523	AUGAACAC U CCACUCC	11640	GGAAGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUUCAU	30015
8509	2521	GAACACUC C ACUCCAC	11641	GUGGAAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGUUC	30016

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8510	2520	AACACUCC A CUUCCACA	11642	UGUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGUU	30017
8512	2518	CACUCCAC U UCCACAUC	11643	GAUGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGUG	30018
8515	2515	UCCACUUC C ACAUCUCA	11644	UGAGAUGU CUGAUGAG	GCCGUUAGGC	CGAA IAAGUGGA	30019
8516	2514	CCACUUCC A CAUCUCAG	11645	CUGAGAUG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGUGG	30020
8518	2512	ACUUCCAC A UCUCAGCU	11646	AGCUGAGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGAAGU	30021
8521	2509	UCCACAUC U CAGUCUUU	11647	AAGAGCUG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUGA	30022
8523	2507	CACAUCUC A GCUCUUGC	11648	GCAAGAGC CUGAUGAG	GCCGUUAGGC	CGAA IAGAUGUG	30023
8526	2504	AUCUCAGC U CUUGCCGG	11649	CCGCACAAG CUGAUGAG	GCCGUUAGGC	CGAA ICUGAGAU	30024
8528	2502	CUCAGCUC U UGCCGGCU	11650	AGCCGGCA CUGAUGAG	GCCGUUAGGC	CGAA IAGCUGAG	30025
8532	2498	GCUCUUGC C GGCUGAUG	11651	CAUCAGCC CUGAUGAG	GCCGUUAGGC	CGAA ICAAGAGC	30026
8536	2494	UUGCCGGC U GAUGUCUA	11652	UAGACAUC CUGAUGAG	GCCGUUAGGC	CGAA ICCGGCAA	30027
8543	2487	CUGAUGUC U AUGGCACA	11653	UGUGCCAU CUGAUGAG	GCCGUUAGGC	CGAA IACAUCAG	30028
8549	2481	UCUAUGGC A CACCAGU	11654	ACUGGGUG CUGAUGAG	GCCGUUAGGC	CGAA ICCAUAAG	30029
8551	2479	UAUGGCAC A CCCAGUGU	11655	ACACUGGG CUGAUGAG	GCCGUUAGGC	CGAA IUGCCAUU	30030
8553	2477	UGGCACAC C CAGUGUCA	11656	UGACACUG CUGAUGAG	GCCGUUAGGC	CGAA IUGUGCCA	30031
8554	2476	GGCACACC C AGUGUCAG	11657	CUGACACU CUGAUGAG	GCCGUUAGGC	CGAA IUGUGGCC	30032
8555	2475	GCACACCC A GUGUCAGC	11658	GCUGACAC CUGAUGAG	GCCGUUAGGC	CGAA IGGUGUGC	30033
8561	2469	CCAGUGUC A GCGUGCAC	11659	GUGCACGC CUGAUGAG	GCCGUUAGGC	CGAA IACACUGG	30034
8568	2462	CAGCGUGC A CGUUCACG	11660	CGUGAACG CUGAUGAG	GCCGUUAGGC	CGAA ICACGUCG	30035
8574	2456	GCACGUUC A CGGAGAGG	11661	CCUCUCCG CUGAUGAG	GCCGUUAGGC	CGAA IACGUGC	30036
8589	2441	GGAAGAGC A GAACUCCU	11662	AGGAGUUC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCC	30037
8594	2436	AGCAGAAC U CCUCCAAC	11663	GUUGGAGG CUGAUGAG	GCCGUUAGGC	CGAA IUUCUGCU	30038
8596	2434	CAGAACTUC U UCCAACUG	11664	CAGUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGUUCUG	30039
8597	2433	AGAACTUC U CCAACUGC	11665	GCAGUUGG CUGAUGAG	GCCGUUAGGC	CGAA IAGAUUCU	30040
8599	2431	AACUCUUC C AACUGCGA	11666	UCGAGUUC CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGUU	30041
8600	2430	ACUCCUCC A ACUGCGAG	11667	CUCGAGU CUGAUGAG	GCCGUUAGGC	CGAA IGAGGAGU	30042
8603	2427	CCUCCAAC U GCGAGAAA	11668	UUUCUCGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAGG	30043
8621	2409	GUGAGAGC U AUGGACCU	11669	AGGUCCAU CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCAC	30044
8628	2402	CUAUGGAC C UAUCACGA	11670	UCUGAUA CUGAUGAG	GCCGUUAGGC	CGAA IUCCAUA	30045
8629	2401	UAUGGACC U AUCACGAG	11671	CUCGUGAU CUGAUGAG	GCCGUUAGGC	CGAA IGUCCAUA	30046
8633	2397	GACCUAUC A CGAGCAUU	11672	AAUGCUCG CUGAUGAG	GCCGUUAGGC	CGAA IAUAGGUC	30047
8639	2391	UCACGAGC A UUGAUGCC	11673	GGCAUCAA CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGUA	30048
8647	2383	AUUGAUGC C CAUCCACA	11674	UGUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA ICAUCAAU	30049
8648	2382	UUGAUGCC C AUCCACAA	11675	UUGUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IGCAUCAA	30050
8649	2381	UGAUGCCC A UCCACAAC	11676	GUUGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGGCAUCA	30051
8652	2378	UGCCCAUC C ACAACAGG	11677	CCUGUUGU CUGAUGAG	GCCGUUAGGC	CGAA IAUGGGCA	30052
8653	2377	GCCCAUCC A CAACAGGA	11678	UCCUGUUG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGGC	30053
8655	2375	CCAUCAC A ACAGGAGA	11679	UCUCCUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGG	30054
8658	2372	UCCACAAC A GGAGAGCC	11680	GGCUCUCC CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGGA	30055
8666	2364	AGGAGAGC C CCCAGCAA	11681	UUGCUGGG CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCCU	30056
8667	2363	GGAGAGCC C CCAGCAAU	11682	AUUGCUGG CUGAUGAG	GCCGUUAGGC	CGAA IGCUCUCC	30057
8668	2362	GAGAGCCC C CAGCAUUC	11683	GAUUGCUG CUGAUGAG	GCCGUUAGGC	CGAA IGGCUCUC	30058
8669	2361	AGAGCCCC C AGCAAUCC	11684	GGAUUGCU CUGAUGAG	GCCGUUAGGC	CGAA IGGGCUCU	30059
8670	2360	GAGCCCCC A GCAAUCCU	11685	AGGAUUGC CUGAUGAG	GCCGUUAGGC	CGAA IGGGGCUC	30060
8673	2357	CCCCCAGC A AUCCUUGC	11686	GCAAGGAU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGGG	30061
8677	2353	CAGCAUUC C UUGCGUUA	11687	UAACGCAA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGCUG	30062
8678	2352	AGCAAUCC U UGCGUUAU	11688	AUAACGCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGCU	30063
8688	2342	GCGUUAUC C AGGACAUG	11689	CAUGUCCU CUGAUGAG	GCCGUUAGGC	CGAA IAUACGCG	30064
8689	2341	CGUUAUCC A GGACAUGC	11690	GCAUGUCC CUGAUGAG	GCCGUUAGGC	CGAA IGAUAACG	30065
8694	2336	UCCAGGAC A UGCCUCCG	11691	CGGAGGCA CUGAUGAG	GCCGUUAGGC	CGAA IUCCUGGA	30066
8698	2332	GGACAUGC C UCCGAACA	11692	UGUUCGGA CUGAUGAG	GCCGUUAGGC	CGAA ICAUGUCC	30067
8699	2331	GACAUGCC U CCGAACAG	11693	CUGUUCGG CUGAUGAG	GCCGUUAGGC	CGAA IGCAUGUC	30068
8701	2329	CAUGCCUC C GAACAGUG	11694	CACUGUUC CUGAUGAG	GCCGUUAGGC	CGAA IAGGCAUG	30069
8706	2324	CUCCGAAC A GUGAGCGG	11695	CCGCUCAC CUGAUGAG	GCCGUUAGGC	CGAA IUUCGGAG	30070
8720	2310	CGGAAUGC U CCUCCGAA	11696	UUCGGAGG CUGAUGAG	GCCGUUAGGC	CGAA ICAUCCCG	30071
8722	2308	GAAUGCUC C UCCGAACA	11697	UGUUCGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGCAUUC	30072
8723	2307	AAUGCUCC U CCGAACAC	11698	GUGUUCGG CUGAUGAG	GCCGUUAGGC	CGAA IAGCAUUC	30073
8725	2305	UGCUCUCC C GAACACUU	11699	AAGUUCUC CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGCA	30074
8730	2300	CUCCGAAC A CUUGAUGG	11700	CCAUCAAG CUGAUGAG	GCCGUUAGGC	CGAA IUUCGGAG	30075
8732	2298	CCGAACAC U UGAUGGAC	11701	GUCCAUCA CUGAUGAG	GCCGUUAGGC	CGAA IUGUUCGG	30076
8741	2289	UGAUGGAC A GCCUCCCC	11702	GGGAAGGC CUGAUGAG	GCCGUUAGGC	CGAA IUCCAUCA	30077

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8744	2286	UGGACAGC C UUCCCAAC	11703	GUUGGGAA CUGAUGAG	GCCGUUAGGC	CGAA	ICUGUCCA	30078
8745	2285	GGACAGCC U UCCCAACU	11704	AGUUGGGA CUGAUGAG	GCCGUUAGGC	CGAA	IGCUGUCC	30079
8748	2282	CAGCCUUC C CAACUGAG	11705	CUCAGUUG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGCUG	30080
8749	2281	AGCCUUC C AACUGAGG	11706	CCUCAGUU CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGGCU	30081
8750	2280	GCCUUC C ACUGAGGU	11707	ACCUCAGU CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAGGC	30082
8753	2277	UUCCCAAC U GAGGUGAA	11708	UUCACCUC CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGGAA	30083
8763	2267	AGGUGAAC A CCCCUCCA	11709	UGGAGGGG CUGAUGAG	GCCGUUAGGC	CGAA	IUUCACCU	30084
8765	2265	GUGAACAC C CCUCCAAC	11710	GUUGGAGG CUGAUGAG	GCCGUUAGGC	CGAA	IUGUUCAC	30085
8766	2264	UGAACACC C CUCCAACU	11711	AGUUGGAG CUGAUGAG	GCCGUUAGGC	CGAA	IGUGUUCA	30086
8767	2263	GAACACCC C UCCAACUG	11712	CAGUUGGA CUGAUGAG	GCCGUUAGGC	CGAA	IGGUGUUC	30087
8768	2262	AACACCCC U CCAACUGA	11713	UCAGUUGG CUGAUGAG	GCCGUUAGGC	CGAA	IGGGUGUU	30088
8770	2260	CACCCUUC C AACUGAUC	11714	GAUCAGUU CUGAUGAG	GCCGUUAGGC	CGAA	IAGGGGUG	30089
8771	2259	ACCCUUC C ACUGAUCC	11715	GGAUCAGU CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGGGU	30090
8774	2256	CCUCCAAC U GAUCCAAA	11716	UUUGGAUC CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGAGG	30091
8779	2251	AACUGAUC C AAAGUCCC	11717	GGGACUUU CUGAUGAG	GCCGUUAGGC	CGAA	IAUCAGUU	30092
8780	2250	ACUGAUCC A AAGUCCCA	11718	UGGGACUU CUGAUGAG	GCCGUUAGGC	CGAA	IGAUCAGU	30093
8786	2244	CCAAAGUC C CAAGCUGU	11719	ACAGCUUG CUGAUGAG	GCCGUUAGGC	CGAA	IACUUUGG	30094
8787	2243	CAAAGUCC C AAGCUGUG	11720	CACAGCUU CUGAUGAG	GCCGUUAGGC	CGAA	IGACUUUG	30095
8788	2242	AAAGUCCC A AGCUGUGU	11721	ACACAGCU CUGAUGAG	GCCGUUAGGC	CGAA	IGGACUUU	30096
8792	2238	UCCCAAGC U GUGUCUCC	11722	GGAGACAC CUGAUGAG	GCCGUUAGGC	CGAA	ICUUGGGA	30097
8798	2232	GCUGUGUC U CCUAGAGC	11723	GCUCUAGG CUGAUGAG	GCCGUUAGGC	CGAA	IACACAGC	30098
8800	2230	UGUGUCUC C UAGAGCGG	11724	CCGCUCUA CUGAUGAG	GCCGUUAGGC	CGAA	IGACACAC	30099
8801	2229	GUGUCUCC U AGAGCGGC	11725	GCCGCUCU CUGAUGAG	GCCGUUAGGC	CGAA	IGAGACAC	30100
8810	2220	AGAGCGGC U AGUCUCUG	11726	CAGAGACU CUGAUGAG	GCCGUUAGGC	CGAA	ICCGCUCU	30101
8815	2215	GGCUAGUC U CUGCGCUC	11727	GAGCGCAG CUGAUGAG	GCCGUUAGGC	CGAA	IACUAGCC	30102
8817	2213	CUAGUCUC U GCGCUCU	11728	AGGAGCGC CUGAUGAG	GCCGUUAGGC	CGAA	IAGACUAG	30103
8822	2208	CUCUGCGC U CCUUGAG	11729	CUCAAAGG CUGAUGAG	GCCGUUAGGC	CGAA	ICGCAGAG	30104
8824	2206	CUGCGCUC C UUUGAGGG	11730	CCUCCAA CUGAUGAG	GCCGUUAGGC	CGAA	IAGCGCAG	30105
8825	2205	UGCGCUC C UUGAGGGU	11731	ACCCUCAA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGCGCA	30106
8846	2184	GUAAGGC U UUGCCAAU	11732	AUUGGCAA CUGAUGAG	GCCGUUAGGC	CGAA	ICUUUAC	30107
8851	2179	GGCUUUGC C AAUGCUGC	11733	GCAGCAUU CUGAUGAG	GCCGUUAGGC	CGAA	ICAAAGCC	30108
8852	2178	GCUUUGCC A AUGCUGCU	11734	AGCAGCAU CUGAUGAG	GCCGUUAGGC	CGAA	IGCAAAGC	30109
8857	2173	GCCAAUGC U GCUUCCAG	11735	CUGGAAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICAUUGGC	30110
8860	2170	AAUGCUGC U UCCAGACU	11736	AGUCUGGA CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCAUU	30111
8863	2167	GCUGCUUC C AGACUUGU	11737	ACAAGUCU CUGAUGAG	GCCGUUAGGC	CGAA	IAAGCAGC	30112
8864	2166	CUGCUUCC A GACUUGUG	11738	CACAAGUC CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGCAG	30113
8868	2162	UCCAGAC U UGUGCCAA	11739	UUGGCACA CUGAUGAG	GCCGUUAGGC	CGAA	IAGCGGAA	30114
8874	2156	ACUUGUGC C AAUGGUGA	11740	UCACCAUU CUGAUGAG	GCCGUUAGGC	CGAA	ICACAAGU	30115
8875	2155	CUUGUGCC A AUGGUGAU	11741	AUCACCAU CUGAUGAG	GCCGUUAGGC	CGAA	IGCACAAG	30116
8889	2141	GAUUGAUC U GUUGUUCU	11742	AGAACAAC CUGAUGAG	GCCGUUAGGC	CGAA	IAUCAAUC	30117
8897	2133	UGUUGUUC U CCUCUGCC	11743	GGCAGAGG CUGAUGAG	GCCGUUAGGC	CGAA	IAACAACA	30118
8899	2131	UUUUCUC C UCUGCCCA	11744	UGGGCAGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGAACAA	30119
8900	2130	UGUUCUCC U CUGCCAC	11745	GUGGGCAG CUGAUGAG	GCCGUUAGGC	CGAA	IGAGAACA	30120
8902	2128	UUCUCCUC U GCCACCA	11746	UGUGGGC CUGAUGAG	GCCGUUAGGC	CGAA	IAGGAGAA	30121
8905	2125	UCCUCUGC C CACCACUA	11747	UAGUGGUG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGAGGA	30122
8906	2124	CCUCUGCC C ACCACUAU	11748	AUAGUGGU CUGAUGAG	GCCGUUAGGC	CGAA	IGCAGAGG	30123
8907	2123	CUCUGCCC A CCACUAUG	11749	CAUAGUGG CUGAUGAG	GCCGUUAGGC	CGAA	IGGCAGAG	30124
8909	2121	CUGCCAC C ACUAUGUA	11750	UACAUAGU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGGCAG	30125
8910	2120	UGCCACC A CUAGUAU	11751	AUACAUAU CUGAUGAG	GCCGUUAGGC	CGAA	IGUGGGCA	30126
8912	2118	CCCACCAC U AUGUAUGA	11752	UCAUACAU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGUGGG	30127
8924	2106	UAUGAGUC U CCAAAGGG	11753	CCCUUUGG CUGAUGAG	GCCGUUAGGC	CGAA	IACUCAUA	30128
8926	2104	GAGUCUC C AAAGGGUG	11754	CACCCUUU CUGAUGAG	GCCGUUAGGC	CGAA	IAGACUCA	30129
8927	2103	UGAGUCC A AAGGGUGG	11755	CCACCCUU CUGAUGAG	GCCGUUAGGC	CGAA	IAGACUC	30130
8939	2091	GGUGGUUC C AAUCAAU	11756	AUUGAAUU CUGAUGAG	GCCGUUAGGC	CGAA	IAACCACC	30131
8940	2090	GUGGUUCC A AUUCAAU	11757	GAUUGAAU CUGAUGAG	GCCGUUAGGC	CGAA	IGAACCAC	30132
8945	2085	UCCAAUUC A AUCAAGAC	11758	GUCCUGAU CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUGGA	30133
8949	2081	AUUCAAUC A GGACCUUA	11759	UAAGGUCC CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGAAU	30134
8954	2076	AUCAGGAC C UUAGCGUU	11760	AACGCUAA CUGAUGAG	GCCGUUAGGC	CGAA	IUCCUGAU	30135
8955	2075	UCAGGACC U UAGCGUUG	11761	CAACGCUA CUGAUGAG	GCCGUUAGGC	CGAA	IGUCCUGA	30136
8966	2064	GCGUUGGC C GUGGCCAC	11762	GUGGCCAC CUGAUGAG	GCCGUUAGGC	CGAA	ICCAACGC	30137
8972	2058	GCCGUGGC C ACUGAAAC	11763	GUUUCAGU CUGAUGAG	GCCGUUAGGC	CGAA	ICCACGGC	30138

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8973	2057	CCGUGGCC A CUGAAACA	11764	UGUUUCAG CUGAUGAG	GCCGUUAGGC	CGAA IGCCACGG	30139
8975	2055	GUGGCCAC U GAAACAAA	11765	UUUGUUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGCCAC	30140
8981	2049	ACUGAAAC A AAAGGGUU	11766	AACCCUUU CUGAUGAG	GCCGUUAGGC	CGAA IUUUCAGU	30141
8993	2037	GGGUUGAC A GUGACCAA	11767	UUGGUCAC CUGAUGAG	GCCGUUAGGC	CGAA IUCAACCC	30142
8999	2031	ACAGUGAC C AAUCUGCC	11768	GGCAGAUU CUGAUGAG	GCCGUUAGGC	CGAA IUCACUGU	30143
9000	2030	CAGUGACC A AUCUGCCC	11769	GGGCAGAU CUGAUGAG	GCCGUUAGGC	CGAA IGUCACUG	30144
9004	2026	GACCAAUC U GCCACUG	11770	CAGUGGGC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGUC	30145
9007	2023	CAAUCUGC C CACUGGCG	11771	CGCCAGUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGAUUG	30146
9008	2022	AAUCUGCC C ACUGGCGU	11772	ACGCCAGU CUGAUGAG	GCCGUUAGGC	CGAA IGCAGAUU	30147
9009	2021	AUCUGCCC A CUGGCGUU	11773	AACGCCAG CUGAUGAG	GCCGUUAGGC	CGAA IGGCAGAU	30148
9011	2019	CUGCCCAC U GCGGUUAG	11774	CUAACGCC CUGAUGAG	GCCGUUAGGC	CGAA IUGGGCAG	30149
9027	2003	GGUCGUUC A AUGAAGCC	11775	GGCUUCAU CUGAUGAG	GCCGUUAGGC	CGAA IAACGACC	30150
9035	1995	AAUGAAGC C ACUGACGA	11776	UCGUCAGU CUGAUGAG	GCCGUUAGGC	CGAA ICUCUAU	30151
9036	1994	GAAGAAGC A CUGACGAG	11777	CUCGUCAG CUGAUGAG	GCCGUUAGGC	CGAA IGCUUCAU	30152
9038	1992	GAAGCCAC U GACGAGAU	11778	AUCUCGUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGCUUC	30153
9053	1977	AUAGGAAC U UUGCAAGG	11779	CCUUGCAA CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUAU	30154
9058	1972	AACUUUGC A AGGUCCAU	11780	AUGGACCU CUGAUGAG	GCCGUUAGGC	CGAA ICAAAGUU	30155
9064	1966	GCAAGGUC C AUCCGUGC	11781	GCACGGAU CUGAUGAG	GCCGUUAGGC	CGAA IACCUUGC	30156
9065	1965	CAAGGUCC A UCCGUGCC	11782	GGCACGGA CUGAUGAG	GCCGUUAGGC	CGAA IGACCUUG	30157
9068	1962	GGUCCAU C GUGCCAGU	11783	ACUGGCAC CUGAUGAG	GCCGUUAGGC	CGAA IAUGGACC	30158
9073	1957	AUCCGUGC C AGUGUACU	11784	AGUACACU CUGAUGAG	GCCGUUAGGC	CGAA ICACGGAU	30159
9074	1956	UCCGUGCC A GUGUACUG	11785	CAGUACAC CUGAUGAG	GCCGUUAGGC	CGAA IGCACGGA	30160
9081	1949	CAGUGUAC U GCAAUUCC	11786	GGAAUUGC CUGAUGAG	GCCGUUAGGC	CGAA IUACACUG	30161
9084	1946	UGUACUGC A AUUCCAAC	11787	GUUGGAU CUGAUGAG	GCCGUUAGGC	CGAA ICAGUACA	30162
9089	1941	UGCAAUUC C AACACCAC	11788	GUGGUGUU CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGCA	30163
9090	1940	GCAAUUC C AACACCAC	11789	UGUGUGUU CUGAUGAG	GCCGUUAGGC	CGAA IGAAUUGC	30164
9093	1937	AUUCCAAC A CCACAGUG	11790	CACUGUGG CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAAU	30165
9095	1935	UCCAACAC C ACAGUGCC	11791	GGCACUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGUUGGA	30166
9096	1934	CCAACACC A CAGUGCCG	11792	CGGCACUG CUGAUGAG	GCCGUUAGGC	CGAA IGUGUUGG	30167
9098	1932	AACACCAC A GUGCCGUG	11793	CACGGCAC CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGUU	30168
9103	1927	CACAGUGC C GUGACCGU	11794	CAGGUCAC CUGAUGAG	GCCGUUAGGC	CGAA ICACUGUG	30169
9109	1921	GCCGUGAC C UGUGUCUG	11795	CAGACACA CUGAUGAG	GCCGUUAGGC	CGAA IUCACGGC	30170
9110	1920	CCGUGACC U GUGUCUGC	11796	GCAGACAC CUGAUGAG	GCCGUUAGGC	CGAA IGUCACGG	30171
9116	1914	CCUGUGUC U GCGGAGU	11797	ACUCCGCG CUGAUGAG	GCCGUUAGGC	CGAA IACACAGG	30172
9126	1904	CGGGAGUC C CAAGAAAC	11798	GUUUCUUG CUGAUGAG	GCCGUUAGGC	CGAA IACUCCCG	30173
9127	1903	GGGAGUCC C AAGAAACU	11799	AGUUUCUU CUGAUGAG	GCCGUUAGGC	CGAA IGACUCCC	30174
9128	1902	GGAGUCCC A AGAAACUU	11800	AAGUUUCU CUGAUGAG	GCCGUUAGGC	CGAA IGGACUCC	30175
9135	1895	CAGAAAC U UGAAAGCC	11801	GGCUUUA CUGAUGAG	GCCGUUAGGC	CGAA IUUUCUUG	30176
9143	1887	UUGAAAGC C UUUGAACA	11802	UGUUCAAA CUGAUGAG	GCCGUUAGGC	CGAA ICUUUCAA	30177
9144	1886	UGAAAGCC U UUGAACAG	11803	CUGUUCAA CUGAUGAG	GCCGUUAGGC	CGAA IGCUUUCA	30178
9151	1879	CUUUGAAC A GACGCCAU	11804	AUGGCGUC CUGAUGAG	GCCGUUAGGC	CGAA IUUCAAG	30179
9157	1873	ACAGACGC C AUAGGUUG	11805	CAACCUAU CUGAUGAG	GCCGUUAGGC	CGAA ICGUCUGU	30180
9158	1872	CAGACGCC A UAGGUUGU	11806	ACAACCUA CUGAUGAG	GCCGUUAGGC	CGAA IGCUCUG	30181
9169	1861	GGUUGUUC C CUUCAACU	11807	AGUUGAAG CUGAUGAG	GCCGUUAGGC	CGAA IAACAACC	30182
9170	1860	GUUGUUC C UUCAACUG	11808	CAGUUGAA CUGAUGAG	GCCGUUAGGC	CGAA IGAACAAC	30183
9171	1859	UUGUUCUCC U UCAACUGC	11809	CGAUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUGAACA	30184
9174	1856	UUCCCUUC A ACUGCAAU	11810	AUUGCAGU CUGAUGAG	GCCGUUAGGC	CGAA IAAGGGAA	30185
9177	1853	CCUUCAC U GCAAUUUU	11811	AAAAUUGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGAAGG	30186
9180	1850	UCAACUGC A AUUUUUC	11812	GGAAAAU CUGAUGAG	GCCGUUAGGC	CGAA ICAGUUGA	30187
9188	1842	AAUUUUUC C AUCUUCAC	11813	GUGAAGAU CUGAUGAG	GCCGUUAGGC	CGAA IAAAAAUU	30188
9189	1841	AUUUUUCC A UCUCACU	11814	AGUGAAGA CUGAUGAG	GCCGUUAGGC	CGAA IGAAAAAU	30189
9192	1838	UUUCCAU C UCACUCUA	11815	UAGAGUGA CUGAUGAG	GCCGUUAGGC	CGAA IAUGGAAA	30190
9195	1835	CCAUCUUC A CUCUACAC	11816	GUGUAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAAGAUGG	30191
9197	1833	AUCUUCAC U CUACAUU	11817	AAGUGUAG CUGAUGAG	GCCGUUAGGC	CGAA IUGAAGAU	30192
9199	1831	CUUCACUC U ACACUUA	11818	UGAAGUGU CUGAUGAG	GCCGUUAGGC	CGAA IUAGAAG	30193
9202	1828	CACUCUAC A CUUCAAU	11819	AUUUGAAG CUGAUGAG	GCCGUUAGGC	CGAA IUAGAGUG	30194
9204	1826	CUCUACAC U UCAAAUGA	11820	UCAUUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUGUAGAG	30195
9207	1823	UACACUUC A AAUGACCC	11821	GGGUCAUU CUGAUGAG	GCCGUUAGGC	CGAA IAAGUGUA	30196
9214	1816	CAAAUGAC C CGACGUCA	11822	UGACGUCG CUGAUGAG	GCCGUUAGGC	CGAA IUCAUUUG	30197
9215	1815	AAAUGACC C GACGUCAA	11823	UUGACGUC CUGAUGAG	GCCGUUAGGC	CGAA IGUCAUUU	30198
9222	1808	CCGACGUC A ACUUGACA	11824	UGUCAAGU CUGAUGAG	GCCGUUAGGC	CGAA IACGUCGG	30199

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9225	1805	ACGUCAAC U UGACAGUG	11825	CACUGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGACGU	30200
9230	1800	AACUUGAC A GUGUUGCU	11826	AGCAACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAAGUU	30201
9238	1792	AGUGUUGC U UGAAAAUU	11827	AAUUUUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAACACU	30202
9248	1782	GAAAAUUC C ACAGGAAU	11828	AUUCCUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUUUUC	30203
9249	1781	AAAAUUC C A CAGGAAUG	11829	CAUUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAUUUU	30204
9251	1779	AAUCCAC A GGAUUGGC	11830	GCCAUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAAUU	30205
9260	1770	GGAUUGGC U CCAGCCAA	11831	UUGGCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAUUCC	30206
9262	1768	AAUUGCUC C AGCCAAAG	11832	CUUUGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCAUU	30207
9263	1767	AUGGCUC C A GCCAAAGC	11833	GCUUUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGCCAU	30208
9266	1764	GCUCCAGC C AAAGCUUG	11834	CAAGCUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGGAGC	30209
9267	1763	CUCCAGCC A AAGCUUGA	11835	UCAAGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUGGAG	30210
9272	1758	GCCAAAGC U UGAUGCAG	11836	CUGCAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUUGGC	30211
9279	1751	CUUGAUGC A GAGCUCCC	11837	GGAGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUCAAG	30212
9284	1746	UGCAGAGC U CCCUCUUG	11838	CAAGAGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUGCA	30213
9286	1744	CAGAGCUC C CUCUUGUG	11839	CACAAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCUCUG	30214
9287	1743	AGAGCUC C UCUCUGUGA	11840	UCACAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGCUCU	30215
9288	1742	GAGCUCCC U CUUGUGAG	11841	CUCACAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAGCUC	30216
9290	1740	GCUCCUC U UGUGAGCC	11842	GGCUCACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGGAGC	30217
9298	1732	UUGUGAGC C CAAUGCUA	11843	UAGCAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCACAA	30218
9299	1731	UGUGAGCC C AAUGCUAU	11844	AUAGCAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUCACA	30219
9300	1730	GUGAGCCC A AUGCUAUC	11845	GAUAGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCUCAC	30220
9305	1725	CCCAAUGC U AUCACAGA	11846	UCUGUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUUGGG	30221
9309	1721	AUGCUAUC A CAGACUGC	11847	GCAGUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAGCAU	30222
9311	1719	GCUAUCAC A GACUCUUC	11848	AAGCAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAUAGC	30223
9315	1715	UCACAGAC U GCUUCGUG	11849	CACGAAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUGUGA	30224
9318	1712	CAGACUGC U UCGUGGCG	11850	CGCCACGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUCUG	30225
9335	1695	UGUGGUUC C UCAAACUC	11851	GAGUUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACCACA	30226
9336	1694	GUGGUUCC U CAAACUCC	11852	GGAGUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACCAC	30227
9338	1692	GGUUCUCC A AACUCCA	11853	AUGGAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAACC	30228
9342	1688	CCUCAAAC U CCAUUAAC	11854	GUUAAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUGAGG	30229
9344	1686	UCAAACUC C AUUAACGU	11855	ACGUUAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUUUGA	30230
9345	1685	CAAACUCC A UUAACGUC	11856	GACGUUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUUUG	30231
9354	1676	UUAACGUC U CUCUGUUC	11857	GAACAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGUUAA	30232
9356	1674	AACGUCUC U CUGUUCU	11858	AGGAACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGACGUU	30233
9358	1672	CGUCUCUC U GUUCCUCC	11859	GGAGGAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGACG	30234
9363	1667	CUCUGUUC C UCCACACA	11860	UGUGUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACAGAG	30235
9364	1666	UCUGUUCU U CCACACAG	11861	CUGUGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAGAG	30236
9366	1664	UGUUCUCC C ACACAGUA	11862	UACUGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAACA	30237
9367	1663	GUUCCUCC A CACAGUAC	11863	GUACUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGGAAC	30238
9369	1661	UCCUCCAC A CAGUACUU	11864	AAGUACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAGGA	30239
9371	1659	CUCCACAC A GUACUUC	11865	GGAAGUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUGGAG	30240
9376	1654	CACAGUAC U UCCAGCAC	11866	GUGCUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACUGUG	30241
9379	1651	AGUACUUC C AGCAGUC	11867	GCAGUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGUACU	30242
9380	1650	GUACUUC C GCACUGCU	11868	AGCAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGUAC	30243
9383	1647	CUUCCAGC A CUGCUCCA	11869	UGGAGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGGAAG	30244
9385	1645	UCCAGCAC U GCUCCAAG	11870	CUUGGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCUGGA	30245
9388	1642	AGCACUGC U CCAAGGGA	11871	UCCUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUGCU	30246
9390	1640	CACUGCUC C AAGGGAGG	11872	CCUCCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCAGUG	30247
9391	1639	ACUGUCC A AGGGAGGU	11873	ACCUCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGCAGU	30248
9407	1623	UUGAGGUC C AUGACCA	11874	UGGUUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCUCAA	30249
9408	1622	UGAGGUCC A UGAACCAC	11875	GUGGUUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACCUCA	30250
9414	1616	CCAUGAAC C ACUCACGA	11876	UCUGAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCAUGG	30251
9415	1615	CAUGAACC A CUCACGAU	11877	AUCUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUCAUG	30252
9417	1613	UGAACCAC U CACGAUGG	11878	CCAUCGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUUCA	30253
9419	1611	AACCACUC A CGAUGGAC	11879	GUCCAUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGGUU	30254
9428	1602	CGAUGGAC C AAGAAGCU	11880	ACGUUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCAUCG	30255
9429	1601	GAUGGACC A AGAAGCUC	11881	GACGUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCCAUC	30256
9438	1592	AGAAGCUC U UUGUCCA	11882	UGGAACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGUUCU	30257
9445	1585	CUUUGUUC C AACAGUCA	11883	UGACUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACAAAG	30258
9446	1584	UUUGUUC C ACAGUCAU	11884	AUGACUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACAAA	30259
9449	1581	GUUCCAAC A GUCAUCAC	11885	GUGAUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGAAC	30260

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9453	1577	CAACAGUC A UCACGUAG	11886	CUACGUGA CUGAUGAG	GCCGUUAGGC	CGAA IACUGUUG	30261
9456	1574	CAGUCAUC A CGUAGUAU	11887	AUACUACG CUGAUGAG	GCCGUUAGGC	CGAA IAUGACUG	30262
9467	1563	UAGUAUGC A UUGGUGUC	11888	GACACCAA CUGAUGAG	GCCGUUAGGC	CGAA ICAUACUA	30263
9476	1554	UUGGUGUC A AUCCCUGA	11889	UCAGGGAU CUGAUGAG	GCCGUUAGGC	CGAA IACACCAA	30264
9480	1550	UGUCAUUC C CUGACCGU	11890	ACGGUCAG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGACA	30265
9481	1549	GUCAAUCC C UGACCGUG	11891	CACGGUCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGAC	30266
9482	1548	UCAAUCCC U GACCGUGG	11892	CCACGGUC CUGAUGAG	GCCGUUAGGC	CGAA IGGAUUGA	30267
9486	1544	UCCUGAC C GUGGUUCA	11893	UGAACCAC CUGAUGAG	GCCGUUAGGC	CGAA IUCAGGGA	30268
9494	1536	CGUGGUUC A CAGUCCAC	11894	GUGGACUG CUGAUGAG	GCCGUUAGGC	CGAA IAACCACG	30269
9496	1534	UGGUUCAC A GUCCACUG	11895	CAGUGGAC CUGAUGAG	GCCGUUAGGC	CGAA IUGAACCA	30270
9500	1530	UCACAGUC C ACUGUCAC	11896	GUGACAGU CUGAUGAG	GCCGUUAGGC	CGAA IACUGUGA	30271
9501	1529	CACAGUCC A CUGUCACC	11897	GGUGACAG CUGAUGAG	GCCGUUAGGC	CGAA IGACUGUG	30272
9503	1527	CAGUCCAC U GUCACCUC	11898	GAGGUGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGGACUG	30273
9507	1523	CCACUGUC A CCUCUCCA	11899	UGGAGAGG CUGAUGAG	GCCGUUAGGC	CGAA IACAGUGG	30274
9509	1521	ACUGUCAC C UCUCCAUA	11900	UAUGGAGA CUGAUGAG	GCCGUUAGGC	CGAA IUGACAGU	30275
9510	1520	CUGUCACC U CUCCAUAU	11901	AUAUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IGUGACAG	30276
9512	1518	GUCACCUC U CCAUAUUC	11902	GAAUAUGG CUGAUGAG	GCCGUUAGGC	CGAA IAGGUGAC	30277
9514	1516	CACCUCUC C AUAUUCUC	11903	GAGAAUAU CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGUG	30278
9515	1515	ACCUCUCC A UAUCUCC	11904	GGAGAAUA CUGAUGAG	GCCGUUAGGC	CGAA IGAGAGGU	30279
9521	1509	CCAUAUUC U CCAAGCUU	11905	AAGCUUGG CUGAUGAG	GCCGUUAGGC	CGAA IAAUAUGG	30280
9523	1507	AUAUUCUC C AAGCUUUA	11906	UAAAGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUAU	30281
9524	1506	UAUUCUCC A AGCUUAG	11907	CUAAAGCU CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAUA	30282
9528	1502	CUCCAAGC U UUAGUGUG	11908	CACACUAA CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGAG	30283
9548	1482	GAAGGCGC C GCAGGAGU	11909	ACUCCUGC CUGAUGAG	GCCGUUAGGC	CGAA ICGCCUUC	30284
9551	1479	GGCGCCGC A GGAGUGAU	11910	AUCACUCC CUGAUGAG	GCCGUUAGGC	CGAA ICGCGGCC	30285
9562	1468	AGUGAUGC U GAAUCUCC	11911	GGAGAUUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUACACU	30286
9568	1462	GCUGAAUC U CCCUGCCU	11912	AGGCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IAUUCAGC	30287
9570	1460	UGAAUCUC C CUGCCUGA	11913	UCAGGCAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAUAUA	30288
9571	1459	GAAUCUCC C UGCCUGAG	11914	CUCAGGCA CUGAUGAG	GCCGUUAGGC	CGAA IAGAUUUC	30289
9572	1458	AAUCUCCC U GCCUGAGU	11915	ACUCAGGC CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAUU	30290
9575	1455	CUCCUCC C UGAGUGGC	11916	GCCACUCA CUGAUGAG	GCCGUUAGGC	CGAA ICAGGGAG	30291
9576	1454	UCCUGCC U GAGUGGCU	11917	AGCCACUC CUGAUGAG	GCCGUUAGGC	CGAA IGCAGGGA	30292
9584	1446	UGAGUGGC U CCAACCUG	11918	CAGGUUGG CUGAUGAG	GCCGUUAGGC	CGAA ICCACUCA	30293
9586	1444	AGUGGCUC C AACCUGUG	11919	CACAGGUU CUGAUGAG	GCCGUUAGGC	CGAA IAGCCACU	30294
9587	1443	GUGGCUC A ACCUGUGU	11920	ACACAGGU CUGAUGAG	GCCGUUAGGC	CGAA IGAGCCAC	30295
9590	1440	GCUCCAAC C UGUGUGGA	11921	UCCACACA CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAGC	30296
9591	1439	CUCCAACC U GUGUGGAG	11922	CUCCACAC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGAG	30297
9607	1423	GUAGUUUC C GUGCGACU	11923	AGUCGCAC CUGAUGAG	GCCGUUAGGC	CGAA IAAACUAC	30298
9615	1415	CGUGCGAC U CCACAGUA	11924	UACUGUGG CUGAUGAG	GCCGUUAGGC	CGAA IUCGCACG	30299
9617	1413	UGCGACUC C ACAGUAGU	11925	ACUACUGU CUGAUGAG	GCCGUUAGGC	CGAA IAGUCGCA	30300
9618	1412	GCGACUCC A CAGUAGUU	11926	AACUACUG CUGAUGAG	GCCGUUAGGC	CGAA IGAGUCGC	30301
9620	1410	GACUCCAC A GUAGUUGG	11927	CCAACUAC CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGUC	30302
9631	1399	AGUUGGUC C AUGGACAA	11928	UUGUCCAU CUGAUGAG	GCCGUUAGGC	CGAA IACCAACU	30303
9632	1398	GUUGGUCC A UGGACAAA	11929	UUUGUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGACCAAC	30304
9638	1392	CCAUGGAC A AAAAUGGC	11930	GCCAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IUCCAUGG	30305
9647	1383	AAAAUGGC C ACUUCGUA	11931	UACGAAGU CUGAUGAG	GCCGUUAGGC	CGAA ICCAUUUU	30306
9648	1382	AAAUGGCC A CUUCGUAC	11932	GUACGAAG CUGAUGAG	GCCGUUAGGC	CGAA IGCCAUUU	30307
9650	1380	AUGGCCAC U UCGUACUU	11933	AAGUACGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGCCAU	30308
9657	1373	CUUCGUAC U UGAUAUUC	11934	GAAUAUCA CUGAUGAG	GCCGUUAGGC	CGAA IUACGAAG	30309
9666	1364	UGAUUAUC U CUUUCAG	11935	CUUGAAAG CUGAUGAG	GCCGUUAGGC	CGAA IAAUAUCA	30310
9668	1362	AUAUUCUC U UUCAAGAU	11936	AUCUUGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUAU	30311
9672	1358	UCUCUUUC A AGAUGGUU	11937	AACCAUCU CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAGA	30312
9682	1348	GAUGGUUC U UCCUAUUG	11938	CAAUAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAACCAUC	30313
9685	1345	GGUUCUUC C UAUUGCCU	11939	AGGCAUAU CUGAUGAG	GCCGUUAGGC	CGAA IGAAGACC	30314
9686	1344	GUUCUUCC U AUUGCCUU	11940	AAGGCAAU CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAAC	30315
9692	1338	CCUAUUGC C UUGGUAGA	11941	UCUACCAA CUGAUGAG	GCCGUUAGGC	CGAA ICAAUAGG	30316
9693	1337	CUAUUGCC U UGGUAGAG	11942	CUCUACCA CUGAUGAG	GCCGUUAGGC	CGAA IGCAAUAG	30317
9703	1327	GGUAGAGC A GGCAAAUU	11943	AAUUGGCC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUACC	30318
9707	1323	GAGCAGGC A AAUUGGCC	11944	GCCAAAUU CUGAUGAG	GCCGUUAGGC	CGAA ICCUGCUC	30319
9718	1312	UUUGCGGC A UGUGUCAA	11945	UUGACACA CUGAUGAG	GCCGUUAGGC	CGAA ICGCCAAA	30320
9725	1305	CAUGUGUC A AUGCUUCC	11946	GGAAGCAU CUGAUGAG	GCCGUUAGGC	CGAA IACACAUG	30321

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9730	1300	GUCAAUGC U UCCUUGC	11947	GCAAAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUUGAC	30322
9733	1297	AAUGCUUC C UUUGCCAA	11948	UUGGCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGCAUU	30323
9734	1296	AUGCUUCC U UUGCCAA	11949	UUUGGCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGCAU	30324
9739	1291	UCCUUGC C AAUAUAUC	11950	GAUUAUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAAGGA	30325
9740	1290	CCUUGGCC A AAUAUCC	11951	GGAUUAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAAGG	30326
9748	1282	AAUAUAUC C GCAGCCGU	11952	ACGGCUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUAUUU	30327
9751	1279	UAAUCCGC A GCCGUUGC	11953	GCAACGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGAUUA	30328
9754	1276	UCCGCAGC C GUUGCCCC	11954	GGGGCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGCGGA	30329
9760	1270	GCCGUUGC C CCAGCCCC	11955	GGGGCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAACGGC	30330
9761	1269	CCGUUGCC C CAGCCCCU	11956	AGGGGCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAACGG	30331
9762	1268	CGUUGCCC C AGCCCCUG	11957	CAGGGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCAACG	30332
9763	1267	GUUGCCCC A GCCCCUGU	11958	ACAGGGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGCAAC	30333
9766	1264	CCCCAGC C CCUGUCCA	11959	UGGACAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGGGGC	30334
9767	1263	CCCAGCC C CUGUCCAC	11960	GUGGACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUGGGG	30335
9768	1262	CCCAGCCC C UGUCCACC	11961	GGUGGACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCUGGG	30336
9769	1261	CCAGCCCC U GUCCACCA	11962	UGGUGGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGCGUG	30337
9773	1257	CCCUGUC C ACCACUCC	11963	GGAGUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAGGGG	30338
9774	1256	CCUGUCC A CCACUCCU	11964	AGGAGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACAGGG	30339
9776	1254	CUGUCCAC C ACUCCUUG	11965	CAAGGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGACAG	30340
9777	1253	UGUCCACC A CUCCUUGU	11966	ACAAGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGACAA	30341
9779	1251	UCCACCAC U CCUUGUCU	11967	AGACAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUGGA	30342
9781	1249	ACCACUC C UUGUCUGC	11968	GCAGACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGGUG	30343
9782	1248	ACCACUCC U UGUCUGCA	11969	UGCAGACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGUGGU	30344
9787	1243	UCCUUGUC U GCACACAA	11970	UUGUGUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAAGGA	30345
9790	1240	UUGUCUGC A CACAAAAG	11971	CUUUUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGACAA	30346
9792	1238	GUUCGCAC A CAAAAGCU	11972	AGCUUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCAGAC	30347
9794	1236	CUGCACAC A AAAGCUGG	11973	CCAGCUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUGCAG	30348
9800	1230	ACAAAAGC U GGGUCAGC	11974	GCUGACCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUUUGU	30349
9806	1224	GCUGGGUC A GCAGUUU	11975	AAACGUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCCAGC	30350
9809	1221	GGUGCAGC A CGUUUGUC	11976	GACAAACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGACCC	30351
9818	1212	CGUUUGUC A UUGUGAGC	11977	GCUCACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAAACG	30352
9827	1203	UUGUGAGC U UCUCUCAU	11978	AUGGGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCACAA	30353
9830	1200	UGAGCUUC U CCCAUGGU	11979	ACCAUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGCUCA	30354
9832	1198	AGCUUCUC C CAUGGUCG	11980	CGACCAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAAGCU	30355
9833	1197	GCUCUCC C AUGGUCGG	11981	CCGACCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGAAGC	30356
9834	1196	CUUCUCCC A UGGUCGGG	11982	CCCGACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAGAAG	30357
9844	1186	GUGCGGC A CGCAGCUU	11983	AAGCUGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCCAGC	30358
9848	1182	GGCAGCG A GCUUUGGU	11984	ACCAAAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUGCCC	30359
9851	1179	CACGCAGC U UUGGUGGA	11985	UCCACCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGCGUG	30360
9868	1162	GAGAUCCG U GACGGUAG	11986	CUACCGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAUCUC	30361
9878	1152	ACGUAGC C AAUAAGCA	11987	UGCUAUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUACCGU	30362
9879	1151	CGUAGCC A AAUAGCAA	11988	UUGCUAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUACCG	30363
9886	1144	CAAUAAGC A AUAACUGC	11989	GCAGUUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAUUUG	30364
9892	1138	GCAAUAAC U GCGGACCU	11990	AGGUCCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUAUUGC	30365
9899	1131	CUGCGGAC C UCUGCCAG	11991	CUGGCAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCGAC	30366
9900	1130	UGCGGACC U CUGCCAGG	11992	CCUGGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCGCA	30367
9902	1128	CGGACCUC U GCCAGGUU	11993	AACCUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGUCCG	30368
9905	1125	ACCUCUGC C AGGUUGAC	11994	GUCAACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGAGGU	30369
9906	1124	CCUCUGCC A GGUUGACC	11995	GGUCAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAGAGG	30370
9914	1116	AGGUUGAC C GCCUCCA	11996	AUGGAGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAACCU	30371
9917	1113	UUGACCGC C UCCAUAUU	11997	AAUAUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGUCAA	30372
9918	1112	UGACCGCC U CCAUAUUC	11998	GAAUAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGUCAA	30373
9920	1110	ACGCGCUC C AUAUUAU	11999	AUGAAUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGCGGU	30374
9921	1109	CCGCCUCC A UAUUCAUC	12000	GAUGAAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGCGG	30375
9927	1103	CCAUAUUC A UCAUCUUC	12001	GAAGAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUAUGG	30376
9930	1100	UAUUAUC A UCUCACA	12002	UGUGAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGAAUA	30377
9933	1097	UCAUCAUC U UCACAUCG	12003	CGAUGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGAUGA	30378
9936	1094	UCAUCUUC A CAUCGAUG	12004	CAUCGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGAUGA	30379
9938	1092	AUCUUCAC A UCGAUGGU	12005	ACCAUCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAGAU	30380
9951	1079	UGGUAGGC U UGUCCUUA	12006	UAAGGACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUACCA	30381
9956	1074	GGCUUGUC C UUAGACAU	12007	AUGUCUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAAGCC	30382

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9957	1073	GCUUGUCC U UAGACAUG	12008	CAUGUCUA CUGAUGAG	GCCGUUAGGC	CGAA IGACAAGC	30383
9963	1067	CCUUAGAC A UGAUAGUC	12009	GACUAUCA CUGAUGAG	GCCGUUAGGC	CGAA IUCUAAGG	30384
9972	1058	UGAUAGUC A CGCAGCUG	12010	CAGCUGCG CUGAUGAG	GCCGUUAGGC	CGAA IACUAUCA	30385
9976	1054	AGUCACGC A GCUGUCGC	12011	GCGACAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGGACU	30386
9979	1051	CACGCAGC U GUCGCCU	12012	AAGGCGAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGCGUG	30387
9985	1045	GCUGUCGC C UUCGAGAA	12013	UUCUCGAA CUGAUGAG	GCCGUUAGGC	CGAA ICGACAGC	30388
9986	1044	CUGUCGCC U UCGAGAAC	12014	GUUCUGCA CUGAUGAG	GCCGUUAGGC	CGAA ICGACAG	30389
9995	1035	UCGAGAAC C AAUCCAC	12015	GUGGAUUU CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCGA	30390
9996	1034	CGAGAAC C AAUCCAC	12016	GGUGGAUU CUGAUGAG	GCCGUUAGGC	CGAA IGUUCUCG	30391
10001	1029	ACCAAUCC C ACCCAUGU	12017	ACAUGGGU CUGAUGAG	GCCGUUAGGC	CGAA IAUUUGGU	30392
10002	1028	CCAAAUCC C CCCAUGUU	12018	AACAUGGG CUGAUGAG	GCCGUUAGGC	CGAA IGAUUUGG	30393
10004	1026	AAAUCCAC C CAUGUUGC	12019	GCAACAG CUGAUGAG	GCCGUUAGGC	CGAA IUGGAUUU	30394
10005	1025	AAUCCACC C AUGUUGCU	12020	AGCAACAU CUGAUGAG	GCCGUUAGGC	CGAA IUGGGAUU	30395
10006	1024	AUCCACCC A UGUUGCUC	12021	GAGCAACA CUGAUGAG	GCCGUUAGGC	CGAA IGGUGGAU	30396
10013	1017	CAUGUUGC U CCAGACAC	12022	GUGUCUGG CUGAUGAG	GCCGUUAGGC	CGAA ICAACAUG	30397
10015	1015	UGUUGCUC C AGACACUC	12023	GAGUGUCU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAACA	30398
10016	1014	GUUGCUCC A GACACUCC	12024	GGAGUGUC CUGAUGAG	GCCGUUAGGC	CGAA IAGCAAC	30399
10020	1010	CUCCAGAC A CUCCUCC	12025	GGAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUCUGGAG	30400
10022	1008	CCAGACAC U CCUCCAA	12026	UUGGAAGG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCUGG	30401
10024	1006	AGACACUC C UUCAAGA	12027	UCUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGUUCU	30402
10025	1005	GACACUCC U UCCAAGAA	12028	UUCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUC	30403
10028	1002	ACUCCUUC C AAGAAGUC	12029	GACUUCU CUGAUGAG	GCCGUUAGGC	CGAA IAAGGAGU	30404
10029	1001	CUCCUUC C AAGAAGUCU	12030	AGACUUCU CUGAUGAG	GCCGUUAGGC	CGAA IGAAGGAG	30405
10037	993	AAGAAGUC U CUGUUGCU	12031	AGCAACAG CUGAUGAG	GCCGUUAGGC	CGAA IACUUCU	30406
10039	991	GAAGUCUC U GUUGCUCA	12032	UGAGCAAC CUGAUGAG	GCCGUUAGGC	CGAA IAGACUUC	30407
10045	985	UCUGUUGC U CAUUCCAA	12033	UUGGAAUG CUGAUGAG	GCCGUUAGGC	CGAA ICAACAGA	30408
10047	983	UGUUGCUC A UUCAAGG	12034	CCUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGCAACA	30409
10051	979	GCUCAUUC C AAGGCAGU	12035	ACUGCCU CUGAUGAG	GCCGUUAGGC	CGAA IAAUGAGC	30410
10052	978	CUCAUUC C AAGGCAGU	12036	AACUGCCU CUGAUGAG	GCCGUUAGGC	CGAA ICAUUGAG	30411
10057	973	UCCAAGGC A GUUGAAGC	12037	GCUUCAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCUUGGA	30412
10066	964	GUUGAAGC U GUAAGCUG	12038	CAGCUUAC CUGAUGAG	GCCGUUAGGC	CGAA ICUUCAAC	30413
10073	957	CUGUAAGC U GGGGCCAC	12039	GUGGCCCC CUGAUGAG	GCCGUUAGGC	CGAA ICUUACAG	30414
10079	951	GCUGGGGC C ACCAAAG	12040	CUUUGGU CUGAUGAG	GCCGUUAGGC	CGAA ICCCCAGC	30415
10080	950	CUGGGGCC C CCAAAGC	12041	GCUUUGG CUGAUGAG	GCCGUUAGGC	CGAA IGCCCCAG	30416
10082	948	GGGGCCAC C AAAAGCAA	12042	UUGCUUUU CUGAUGAG	GCCGUUAGGC	CGAA IUGGCCCC	30417
10083	947	GGGCCACC A AAAGCAA	12043	AUUGCUUU CUGAUGAG	GCCGUUAGGC	CGAA IUGGCCCC	30418
10089	941	CCAAAGC A AUAGCAG	12044	CGUGCUAU CUGAUGAG	GCCGUUAGGC	CGAA ICUUUGG	30419
10095	935	GCAUAGC A CGACAAAC	12045	GUUUGUCG CUGAUGAG	GCCGUUAGGC	CGAA ICUAUUGC	30420
10100	930	AGCACGAC A AACACAAC	12046	GUUGUGUU CUGAUGAG	GCCGUUAGGC	CGAA IUCGUGCU	30421
10104	926	CGACAAAC A CAACUCUC	12047	GAGAGUUG CUGAUGAG	GCCGUUAGGC	CGAA IUUUGUCG	30422
10106	924	ACAAACAC A ACUCUCUG	12048	CAGAGAGU CUGAUGAG	GCCGUUAGGC	CGAA IUGUUUGU	30423
10109	921	AACACAAC U CUCUGCAU	12049	AUGCAGAG CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGUU	30424
10111	919	CACAACUC U CUGCAUGG	12050	CCAUGCAG CUGAUGAG	GCCGUUAGGC	CGAA IAGUUGUG	30425
10113	917	CAACUCUC U GCAUGGUG	12051	CACCAUGC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUUG	30426
10116	914	CUCUCUGC A UGGUGUUG	12052	CAACACCA CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGAG	30427
10126	904	GGUGUUGC U CCCAAGCA	12053	UGCUGGG CUGAUGAG	GCCGUUAGGC	CGAA ICAACACC	30428
10128	902	UGUUGCUC C CAAGCAUC	12054	GAUGCUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGCAACA	30429
10129	901	GUUGCUCC C AAGCAUCC	12055	GGAUGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAAC	30430
10130	900	UUGCUCC C AAGCAUCC	12056	UGGAUGCU CUGAUGAG	GCCGUUAGGC	CGAA IGGAGCAA	30431
10134	896	UCCAAGC A UCCAACCA	12057	UGGUUGGA CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGGA	30432
10137	893	CAAGCAUC C AACCAUG	12058	CAUUGGUU CUGAUGAG	GCCGUUAGGC	CGAA IAGUCUUG	30433
10138	892	AAGCAUCC A ACCAUGA	12059	UCAUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IGAUGCUU	30434
10141	889	CAUCCAAC C AAUAGCGG	12060	CCGUCAU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAUG	30435
10142	888	AUCCAACC A AUGACGGC	12061	GCCGUCAU CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGAU	30436
10151	879	AUGACGGC U GCCACCAG	12062	CUGGUGGC CUGAUGAG	GCCGUUAGGC	CGAA ICCGUCAU	30437
10154	876	ACGGCUGC C ACCAGGGC	12063	GCCUGGU CUGAUGAG	GCCGUUAGGC	CGAA ICAGCCGU	30438
10155	875	CGGUGGCC C CCAGGGCA	12064	UGCCUGG CUGAUGAG	GCCGUUAGGC	CGAA IGCAGCCG	30439
10157	873	GCUGCCAC C AGGGCAUA	12065	UAUGCCCU CUGAUGAG	GCCGUUAGGC	CGAA IUGGCAGC	30440
10158	872	CGGCCACC A GGGCAUAU	12066	AUAUGCCC CUGAUGAG	GCCGUUAGGC	CGAA IGUGGCAG	30441
10163	867	ACCAGGGC A UAUCGAGG	12067	CCUGGAUA CUGAUGAG	GCCGUUAGGC	CGAA ICCUGGU	30442
10168	862	GGCAUAUC C AGGGUCC	12068	GGAACCCU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGGCC	30443

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10169	861	GCAUAUCC A GGGUCCU	12069	AGGAACCC CUGAUGAG	GCCGUUAGGC	CGAA IGAUAUGC	30444
10176	854	CAGGGUUC C UCAAGAUC	12070	GAUCUUGA CUGAUGAG	GCCGUUAGGC	CGAA IAACCCUG	30445
10177	853	AGGGUUCU U CAAGAUC	12071	GGAUCUUG CUGAUGAG	GCCGUUAGGC	CGAA IGAACCCU	30446
10179	851	GGUUCUC A AGAUCCAU	12072	AUGGAUCU CUGAUGAG	GCCGUUAGGC	CGAA IAGGAACC	30447
10185	845	UCAAGAUC C AUGAUUCU	12073	AGAAUCAU CUGAUGAG	GCCGUUAGGC	CGAA IAUCUUGA	30448
10186	844	CAAGAUC A UGAUUCUG	12074	CAGAAUCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUCUUG	30449
10193	837	CAUGAUUC U GUUUUAC	12075	GUAAAAAC CUGAUGAG	GCCGUUAGGC	CGAA IAAUCAUG	30450
10202	828	GUUUUAC C AAUACCU	12076	AGGUUUUU CUGAUGAG	GCCGUUAGGC	CGAA IUAAAAAC	30451
10203	827	UUUUUACC A AAUACCU	12077	AAGGUUUU CUGAUGAG	GCCGUUAGGC	CGAA IGUAAAAA	30452
10209	821	CCAAAUAC C UUGUGGCC	12078	GGCCACAA CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUGG	30453
10210	820	CAAUACCU U UGUGGCC	12079	AGGCCCAA CUGAUGAG	GCCGUUAGGC	CGAA IGUAUUUG	30454
10217	813	CUUGUGGC C UUGUGUCU	12080	AGCACCAA CUGAUGAG	GCCGUUAGGC	CGAA ICCACAAG	30455
10218	812	UUGUGGCC U UGUGUCU	12081	CAGCACCA CUGAUGAG	GCCGUUAGGC	CGAA IGCCACAA	30456
10225	805	CUUGUGGC U GUCCAUC	12082	GGAUGGAC CUGAUGAG	GCCGUUAGGC	CGAA ICACCAAG	30457
10229	801	GUGCUGUC C AUCCAAGC	12083	GCUUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IACAGCAC	30458
10230	800	UGCUGUCC A UCCAAGCC	12084	GGCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGACAGCA	30459
10233	797	UGUCCAUC C AAGCCCC	12085	GGGGGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGACA	30460
10234	796	GUCCAUC A AGCCCCU	12086	AGGGGGCU CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGAC	30461
10238	792	AUCCAAGC C CCCUUCU	12087	AAGAAGGG CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGAU	30462
10239	791	UCCAAGCC C CCUUCUUG	12088	CAAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA IGCUUGGA	30463
10240	790	CCAAGCCC C CUUCUUGU	12089	ACAAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IGGCUUGG	30464
10241	789	CAAGCCCC C UUCUUGUU	12090	AACAAGAA CUGAUGAG	GCCGUUAGGC	CGAA IGGGCUUG	30465
10242	788	AAGCCCC U UCUUGUUC	12091	GAACAAGA CUGAUGAG	GCCGUUAGGC	CGAA IGGGGCUU	30466
10245	785	CCCCUUC U UGUUCGU	12092	AGCGAACA CUGAUGAG	GCCGUUAGGC	CGAA IAGGGGGG	30467
10253	777	UUGUUCGC U AGAGUGCU	12093	AGCACUCU CUGAUGAG	GCCGUUAGGC	CGAA ICGAACAA	30468
10261	769	UAGAGUGC U UUCUCCGU	12094	ACGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA ICACUCUA	30469
10265	765	GUGCUUUC U CCGUGUGU	12095	ACACACGG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGCAC	30470
10267	763	GCUUUCUC C GUGUGUCU	12096	AGACACAC CUGAUGAG	GCCGUUAGGC	CGAA IAGAAAGC	30471
10275	755	CGUGUGUC U GCACUGUC	12097	GACAGUGC CUGAUGAG	GCCGUUAGGC	CGAA IACACACG	30472
10278	752	GUGUCUGC A CUGUCAGU	12098	ACUGACAG CUGAUGAG	GCCGUUAGGC	CGAA ICACACAC	30473
10280	750	GUCUGCAC U GUCAGUGA	12099	UCACUGAC CUGAUGAG	GCCGUUAGGC	CGAA IUGCAGAC	30474
10284	746	GCACUGUC A GUGACCUC	12100	GAGGUCAC CUGAUGAG	GCCGUUAGGC	CGAA IACAGUGC	30475
10290	740	UCAGUGAC C UCCGACUG	12101	CAGUCGGA CUGAUGAG	GCCGUUAGGC	CGAA IUCACUGA	30476
10291	739	CAGUGACC U CCGACUGC	12102	GCAGUCGG CUGAUGAG	GCCGUUAGGC	CGAA IGUCACUG	30477
10293	737	GUGACCUC C GACUGCGU	12103	ACGCAGUC CUGAUGAG	GCCGUUAGGC	CGAA IAGGUCAC	30478
10297	733	CCUCCGAC U GCGUCUUG	12104	CAAGACGC CUGAUGAG	GCCGUUAGGC	CGAA IUCGGAGG	30479
10303	727	ACUCCGUC U UGAGUGGC	12105	GCCACUCA CUGAUGAG	GCCGUUAGGC	CGAA IACGACAGU	30480
10317	713	GGCGUGUC U UGGUGCAU	12106	AUGCACCA CUGAUGAG	GCCGUUAGGC	CGAA IACACGCC	30481
10324	706	CUUGGUGC A UCUUCCAU	12107	AUGGAAGA CUGAUGAG	GCCGUUAGGC	CGAA ICACCAAG	30482
10327	703	GGUGCAUC U UCCAUAAC	12108	GGUAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAUGCACC	30483
10330	700	GCAUCUUC C AUACCUGA	12109	UCAGGUUU CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGUC	30484
10331	699	CAUCUUC A UACCUGAC	12110	GUCAGGUA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAUG	30485
10335	695	UCCAUAUC C UGACGUAG	12111	CUACGUCA CUGAUGAG	GCCGUUAGGC	CGAA IUAUGGAA	30486
10336	694	UCCAUAAC U GACGUAGA	12112	UCUACGUC CUGAUGAG	GCCGUUAGGC	CGAA IGUAUGGA	30487
10346	684	ACGUAGAC U GCUGACUU	12113	AAGUCAGC CUGAUGAG	GCCGUUAGGC	CGAA IUCUACGU	30488
10349	681	UAGACUGC U GACUUUGU	12114	ACAAAGUC CUGAUGAG	GCCGUUAGGC	CGAA ICAGUCUA	30489
10353	677	CUGCUGAC U UUGUGCAC	12115	GUGCACAA CUGAUGAG	GCCGUUAGGC	CGAA IUCAGCAG	30490
10360	670	CUUUGUGC A CCAACAGU	12116	ACUGUUGG CUGAUGAG	GCCGUUAGGC	CGAA ICACAAAG	30491
10362	668	UUGUGCAC C AACAGUCG	12117	CGACUGUU CUGAUGAG	GCCGUUAGGC	CGAA IUGCACAA	30492
10363	667	UGUGCACC A ACAGUCGA	12118	UCGACUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGCACA	30493
10366	664	GCACCAAC A GUCGAUGU	12119	ACAUCGAC CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUGC	30494
10376	654	UCGAUGUC U UCUGGAUC	12120	GAUCCAGA CUGAUGAG	GCCGUUAGGC	CGAA IACAUCGA	30495
10379	651	AUGUCUUC U GGAUCAU	12121	AAUGAUCC CUGAUGAG	GCCGUUAGGC	CGAA IAAGACAU	30496
10385	645	UCUGGAUC A UUACCAGC	12122	GCUGGUAA CUGAUGAG	GCCGUUAGGC	CGAA IAUCCAGA	30497
10390	640	AUCAUAC C AGCCGACA	12123	UGUCGGCU CUGAUGAG	GCCGUUAGGC	CGAA IUAAUGAU	30498
10391	639	UCAUUAAC A GCCGACAG	12124	CUGUCGGC CUGAUGAG	GCCGUUAGGC	CGAA IGUAUUGA	30499
10394	636	UUACCAGC C GACAGCAC	12125	GUGCUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICUGGUAA	30500
10398	632	CAGCCGAC A GCACUGGG	12126	CCCAGUGC CUGAUGAG	GCCGUUAGGC	CGAA IUCGGCUG	30501
10401	629	CCGACAGC A CUGGGCAU	12127	AUGCCAG CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCGG	30502
10403	627	GACAGCAC U GGGCAUUC	12128	GAAUGCCC CUGAUGAG	GCCGUUAGGC	CGAA IUGCUGUC	30503
10408	622	CACUGGGC A UUCAUAG	12129	CUUAUGAA CUGAUGAG	GCCGUUAGGC	CGAA ICCAGAG	30504

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10412	618	GGGCAUUC A UAAGUGAU	12130	AUCACUUA CUGAUGAG	GCCGUUAGGC	CGAA IAAUGCCC	30505
10427	603	AUAGUAUC A UCGCACAU	12131	AUGUGCGA CUGAUGAG	GCCGUUAGGC	CGAA IAUACUUA	30506
10432	598	AUCAUCGC A CAUGUAUC	12132	GAUACAUG CUGAUGAG	GCCGUUAGGC	CGAA ICGAUGAU	30507
10434	596	CAUCGCAC A UGUUAUCC	12133	GGGAUACA CUGAUGAG	GCCGUUAGGC	CGAA IUUGCAUG	30508
10441	589	CAUGUAUC C CACAUCCA	12134	UGGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA IAUACAUG	30509
10442	588	AUGUAUCC C ACAUCCAU	12135	AUGGAUGU CUGAUGAG	GCCGUUAGGC	CGAA IGAUACAU	30510
10443	587	UGUAUCCC A CAUCCAUU	12136	AAUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA IGGAUACA	30511
10445	585	UAUCCAC A UCCAUUGC	12137	GCAUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAUA	30512
10448	582	CCCACAUC C AUUGCUCU	12138	AGAGCAAU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUGG	30513
10449	581	CCACAUC C AUUGCUCU	12139	CAGAGCAA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGUGG	30514
10454	576	UCCAUGUC U CUGACAAU	12140	AUUGUCAG CUGAUGAG	GCCGUUAGGC	CGAA ICAAUGGA	30515
10456	574	CAUUGCUC U GACAAUGC	12141	GCAUUGUC CUGAUGAG	GCCGUUAGGC	CGAA IUGCAUG	30516
10460	570	GCUCUGAC A AUGCAUAG	12142	CUAUGCAU CUGAUGAG	GCCGUUAGGC	CGAA IUCAGAGC	30517
10465	565	GACAAUGC A UAGGUUCU	12143	AGAACCUA CUGAUGAG	GCCGUUAGGC	CGAA ICAUUGUC	30518
10473	557	AUAGGUUC U UUCAGCA	12144	UGCUGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAACCUAU	30519
10477	553	GUUCUUUC C AGCAGCUG	12145	CAGCUGCU CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAAC	30520
10478	552	UUCUUUCC A GCAGCUGU	12146	ACAGCUGC CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAGAA	30521
10481	549	UUUCCAGC A GCUGUUGG	12147	CCAACAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGGAAA	30522
10484	546	CCAGCAGC U GUUGGAAU	12148	AUUCCAA CUGAUGAG	GCCGUUAGGC	CGAA ICUGCUGG	30523
10502	528	GAGCAGAC A UCUGUGAC	12149	GUCACAGA CUGAUGAG	GCCGUUAGGC	CGAA IUAUCAC	30524
10505	525	AUGACAUC U GUGACGUC	12150	GACGUCAC CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAU	30525
10514	516	GUGACGUC A GUAGCAU	12151	AAUGCUAC CUGAUGAG	GCCGUUAGGC	CGAA IACGUCAC	30526
10520	510	UCAGUAGC A UUUACCGU	12152	ACGGUAAA CUGAUGAG	GCCGUUAGGC	CGAA ICUACUGA	30527
10526	504	GCAUUUAC C GUCAUCAU	12153	AUGAUGAC CUGAUGAG	GCCGUUAGGC	CGAA IUAAAUGC	30528
10530	500	UUACCGUC A UCAUACCC	12154	GGUGAUGA CUGAUGAG	GCCGUUAGGC	CGAA IACGGUAA	30529
10533	497	CCGUCAUC A UCACCUUC	12155	GAAGGUGA CUGAUGAG	GCCGUUAGGC	CGAA IAUAGCGG	30530
10536	494	UCAUCAUC A CCUCCCU	12156	AGGGAAGG CUGAUGAG	GCCGUUAGGC	CGAA IAUAGAUA	30531
10538	492	AUCAUCAC C UUCUUUG	12157	CAAGGCAA CUGAUGAG	GCCGUUAGGC	CGAA IUGAUGAU	30532
10539	491	UCAUCACC U UCCUUUG	12158	CCAAGGGA CUGAUGAG	GCCGUUAGGC	CGAA IUGAUGAU	30533
10542	488	UCACCUUC C CUUGGAAG	12159	CUUCCAAG CUGAUGAG	GCCGUUAGGC	CGAA IAAGGUGA	30534
10543	487	CACCUUCC C UUGGAAGU	12160	ACUCCAA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGGUG	30535
10544	486	ACCUUCCC U UGGAAGUU	12161	AACUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGGU	30536
10565	465	AGGGUAA C U GCUCUAC	12162	GUAGGAGC CUGAUGAG	GCCGUUAGGC	CGAA IUUACCCU	30537
10568	462	GUAACUGC U CCUACGU	12163	AGCGUAGG CUGAUGAG	GCCGUUAGGC	CGAA ICAGUUAC	30538
10570	460	AACUGCUC C UACGUGG	12164	CCAGCGUA CUGAUGAG	GCCGUUAGGC	CGAA IAGCAGU	30539
10571	459	ACUGCUCC U ACGCUGG	12165	GCCAGCGU CUGAUGAG	GCCGUUAGGC	CGAA IGAGCAGU	30540
10576	454	UCCUACGC U GGCGAUA	12166	UGAUGGCC CUGAUGAG	GCCGUUAGGC	CGAA ICGUAGGA	30541
10584	446	UGGCGAUC A GGCCAAUC	12167	GAUUGGCC CUGAUGAG	GCCGUUAGGC	CGAA IAUGCCA	30542
10588	442	GAUCAGGC C AAUCAUGA	12168	UCAUGAUU CUGAUGAG	GCCGUUAGGC	CGAA ICCUGAUC	30543
10589	441	AUCAGGCC A AUCAUGAC	12169	GUCAUGAU CUGAUGAG	GCCGUUAGGC	CGAA IGCCUGAU	30544
10593	437	GGCCAAUC A UGACUGCA	12170	UGCAGUCA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGCC	30545
10598	432	AUCAUGAC U GCAAUUC	12171	GGAUUGC CUGAUGAG	GCCGUUAGGC	CGAA IUCAUGAU	30546
10601	429	AUGACUGC A AUUCCGGU	12172	ACCGGAAU CUGAUGAG	GCCGUUAGGC	CGAA ICAGUCAU	30547
10606	424	UGCAAUUC C GGUCUUUC	12173	GAAAGACC CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGCA	30548
10611	419	UUCGCGUC U UUCUUUCU	12174	AGGAGGAA CUGAUGAG	GCCGUUAGGC	CGAA IACCGGAA	30549
10615	415	GGUCUUUC C UCCUUUU	12175	AAAGAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAAAGACC	30550
10616	414	GUCUUUCC U CCUCUUU	12176	AAAAGAGG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAC	30551
10618	412	CUUUCCUC C UCUUUCU	12177	AGAAAAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAAAG	30552
10619	411	UUUCCUCC U CUUUUCU	12178	AAGAAAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGGAAA	30553
10621	409	UCCUCCUC U UUUCUUU	12179	AAAAGAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGGA	30554
10626	404	CUCUUUUC U UUUGUUU	12180	AAAACAAA CUGAUGAG	GCCGUUAGGC	CGAA IAAAAGAG	30555
10639	391	UUUUGAGC U CCGCCAU	12181	AUCGCGG CUGAUGAG	GCCGUUAGGC	CGAA ICUCAAAA	30556
10641	389	UUGAGCUC C GCCGAUUG	12182	CAUCCGGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCUCAA	30557
10644	386	AGCUCGCG C GAUUGAUA	12183	UAUCAAU CUGAUGAG	GCCGUUAGGC	CGAA ICGGAGCU	30558
10655	375	UUGAUGAC A CUGGUCAA	12184	UUGACCAG CUGAUGAG	GCCGUUAGGC	CGAA ICUAUCAA	30559
10657	373	GAUAGCAC U GGUCRAAG	12185	CCUUGACC CUGAUGAG	GCCGUUAGGC	CGAA IUUCUAUC	30560
10662	368	CACUGGUC A AGGUCCCU	12186	AGGAGCCU CUGAUGAG	GCCGUUAGGC	CGAA IACCAGUG	30561
10668	362	UCAAGGUC C CUAGUUC	12187	GGAACUAG CUGAUGAG	GCCGUUAGGC	CGAA IACCUUGA	30562
10669	361	CAAGGUCC C UAGUCCU	12188	AGGAACUA CUGAUGAG	GCCGUUAGGC	CGAA IGACCUUG	30563
10670	360	AAGGUCCC U AGUCCCU	12189	AAGGAACU CUGAUGAG	GCCGUUAGGC	CGAA IGGACCUU	30564
10676	354	CCUAGUUC C UUCUAAA	12190	UUUAAGAA CUGAUGAG	GCCGUUAGGC	CGAA IAACUAGG	30565

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10677	353	CUAGUUC U UCUAAAA	12191	UUUUAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACUAG	30566
10680	350	GUUCCUUC U UAAACUC	12192	GAGUUUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGAAC	30567
10687	343	CUUAAAAC U CAGAAGGU	12193	ACCUUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUUAG	30568
10689	341	UAAACUC A GAAGGUGU	12194	ACACCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUUUA	30569
10701	329	GGUGUUUC A UGCGUGUU	12195	AACAGCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAACACC	30570
10706	324	UUCAUCGC U GUUUGUUU	12196	AAACAAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAUGAA	30571
10719	311	GUUUGUUC A CACCUCUC	12197	GAGAGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAACAAAC	30572
10721	309	UUGUUCAC A CCUCUCCA	12198	UGGAGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAACAA	30573
10723	307	GUUCACAC C UCUCACUC	12199	GAUGGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUGAAC	30574
10724	306	UUCACACC U CUCCAUCG	12200	CGAUGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUGAA	30575
10726	304	CACACCUC U CCAUCGAU	12201	AUCGAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGUGUG	30576
10728	302	CACCUCUC C AUCGAUCC	12202	GGAUCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGGUG	30577
10729	301	ACCUCUC A UCGAUCCA	12203	UGGAUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGGU	30578
10736	294	CAUCGAUC C AGCACUGC	12204	GCAGUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGAUG	30579
10737	293	AUCGAUCC A GCACUGCU	12205	AGCAGUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUCGAU	30580
10740	290	GAUCCAGC A CUGCUCGG	12206	CCGAGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGGAUC	30581
10742	288	UCCAGCAC U GCUCGGGU	12207	ACCCGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCUGGA	30582
10745	285	AGCACUGC U CGGUCGG	12208	CCGACCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUGCU	30583
10757	273	GUCGGAGC A AUUGCUGU	12209	ACAGCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCCGAC	30584
10763	267	GCAAUUGC U GUGAACCU	12210	AGGUUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAUUGC	30585
10770	260	CUGUGAAC C UGAAGAAC	12211	GUUCUACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCACAG	30586
10771	259	UGUGAAC C UGAAGAAC	12212	CGUUCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUCACA	30587
10781	249	AAGAACGC C AAGAGAGC	12213	GCUCUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUUCUU	30588
10782	248	AGAACGCC A AGAGAGCC	12214	GGCUCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUGUCU	30589
10790	240	AAGAGAGC C AACACAAA	12215	UUUGUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUCUU	30590
10791	239	AGAGAGCC A ACACAAAU	12216	AUUUGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUCUCU	30591
10794	236	GAGCCAAC A CAAUCGU	12217	ACGAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGCUC	30592
10796	234	GCCAACAC A AAUCGUAU	12218	AUACGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUUGGC	30593
10809	221	GUAUUGGC C CCUUGCCG	12219	CGGCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAAUAC	30594
10810	220	UAUUGGCC C CUUGCCGU	12220	ACGGCAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCAAUA	30595
10811	219	AUUGGCCC C UUGCCGUC	12221	GACGGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCCAAU	30596
10812	218	UUGGCCCC U UGCGGUCG	12222	CGACGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGCCAA	30597
10816	214	CCCUUGC C GUCGAUCA	12223	UGAUCGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAGGGG	30598
10824	206	CGUCGAUC A GGCUCAAC	12224	GUUGAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGACG	30599
10828	202	GAUCAGGC U CAACAUAG	12225	CUAUGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUGAUC	30600
10830	200	UCAGGCUC A ACAUAGCC	12226	GGCUAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCUGA	30601
10833	197	GUCCAUC A UAGCCUC	12227	GAGGGCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGAGCC	30602
10838	192	AACAUAGC C CUUCACAG	12228	CUGAAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAUGUU	30603
10839	191	ACAUAGCC C UCUCAGU	12229	ACUGAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUAUGU	30604
10840	190	CAUAGCCC U CUUCAGUC	12230	GACUGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCUAUG	30605
10842	188	UAGCCUC U UCAGUCCA	12231	UGGACUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGGCUA	30606
10845	185	CCUCUUC A GUCCAUC	12232	GAUUGGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGGGG	30607
10849	181	CUUCAGUC C AAUCAAGG	12233	CCUUGAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUGAAG	30608
10850	180	UUCAGUCC A AUCAAGGA	12234	UCCUUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACUGAA	30609
10854	176	GUCCAUC A AGGACAAC	12235	GUUGUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGGAC	30610
10860	170	UCAAGGAC A ACACGCGG	12236	CCGCGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCUUGA	30611
10863	167	AGGACAAC A CGCGGGGC	12237	GCCCCGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGUCCU	30612
10872	158	CGCGGGGC A UUCGCGGU	12238	ACGCGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCCGCG	30613
10876	154	GGCAUUC C GCGUUUA	12239	UAAAACGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUGCCC	30614
10887	143	GUUUUAGC A UAUUGACA	12240	UGUCAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAAAAC	30615
10895	135	AUAUUGAC A GCCCGGCU	12241	AGCCGGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAAUAU	30616
10898	132	UUGACAGC C CGGCUCUU	12242	AAGAGCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGUCA	30617
10899	131	UAGACGCC C GGCUCUUG	12243	CAAGAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUGUCA	30618
10903	127	AGCCCGGC U CUUGCCGG	12244	CCGGCAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGGGCU	30619
10905	125	CCCGGCUC U UGCGGGGC	12245	GCCCGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCGGG	30620
10909	121	GCUCUUGC C GGGCCUC	12246	GAGGGCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAGAGC	30621
10914	116	UGCGGGGC C CUCCUGGU	12247	ACCAGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCCGGCA	30622
10915	115	GCCGGGCC C UCCUGGUU	12248	AACCAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCCGGC	30623
10916	114	CCGGGCCC U CCUGGUUU	12249	AAACCAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCCGGG	30624
10918	112	GGGCCUC C UGUUUUCU	12250	AGAAACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGGCCC	30625
10919	111	GGCCUCC U GGUUUCUU	12251	AAGAAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGGGCC	30626

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10926	104	CUGGUUUC U UAGACAUC	12252	GAUGUCUA CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	IAAACAG	30627
10932	98	UCUAGAC A UCGAGAUC	12253	GAUCUCGA CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	IUCUAAGA	30628
10941	89	UCGAGAUC U UCGUGCUA	12254	UAGCACGA CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	IAUCUCGA	30629
10948	82	CUUCGUGC U AAGAAACA	12255	UGUUUCUU CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	ICACGAAG	30630
10956	74	UAAGAAAC A GCUCGCAC	12256	GUGCGAGC CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	IUUUCUUA	30631
10959	71	GAAACAGC U CGCACUGU	12257	ACAGUGCG CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	ICUGUUUC	30632
10963	67	CAGCUCGC A CUGUGUUA	12258	UAACACAG CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	ICGAGCUG	30633
10965	65	GCUCGCAC U GUGUUAU	12259	AUUAACAC CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	IUGCGAGC	30634
10985	45	UGUAAUC C UCACAAAC	12260	GUUUGUGA CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	IAUUAACA	30635
10986	44	GUUAAUCC U CACAAACA	12261	UGUUUGUG CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	IGAUAUAC	30636
10988	42	UAAUCCUC A CAAACACU	12262	AGUGUUUG CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	IAGGAUUA	30637
10990	40	AUCCUCAC A AACACUAC	12263	GUAGUGUU CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	IUGAGGAU	30638
10994	36	UCACAAAC A CUACUAG	12264	CUUAGUAG CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	IUUUGUGA	30639
10996	34	ACAAACAC U ACUAAGUU	12265	AACUUGAU CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	IUGUUUGU	30640
10999	31	AACACUAC U AAGUUUGU	12266	ACAACTUU CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	IUAGUGUU	30641
11009	21	AGUUUGUC A GCUCACAC	12267	GUGUGAGC CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	IACAAACU	30642
11012	18	UUGUCAGC U CACACAGG	12268	CCUGUGUG CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	ICUGACAA	30643
11014	16	GUCAGCUC A CACAGGCG	12269	CGCCUGUG CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	IAGCUGAC	30644
11016	14	CAGCUCAC A CAGGCGAA	12270	UUCGCCUG CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	IUGAGCUG	30645
11018	12	GCUCACAC A GGCGAACU	12271	AGUUCGCC CUGAUGAG	<u>GCCGUUAGGC</u> CGAA	IUGUGAGC	30646

Input Sequence = AF196835_rc. Cut Site = CH/.

Arm Length = 8. Core Sequence = CUGAUGAG GCCGUUAGGC CGAA

AF196835_rc reverse complement of West Nile virus strain NY99-flamingo382-99, complete genome

Table X: WNV minus strand Zinzyme and Target Sequence

Pos	Pos (+str)	Substrate	Seq ID	Ribozyme	Rz Seq ID
10	11020	GAUCCUGU G UUCUCGCA	12272	UGCGAGAA GCCGAAAGGCGAGUGAGGUCU ACAGGAUC	30647
16	11014	GUGUUCUC G CACCACCA	12273	UGGUGGUG GCCGAAAGGCGAGUGAGGUCU GAGAACAC	30648
25	11005	CACCACCA G CCACCAU	12274	AAUGGUGG GCCGAAAGGCGAGUGAGGUCU UGGUGGUG	30649
34	10996	CCACCAU G UCGGCGCA	12275	UGCGCCGA GCCGAAAGGCGAGUGAGGUCU AAUGGUGG	30650
38	10992	CAUUGUCG G CGCACUGU	12276	ACAGUGCG GCCGAAAGGCGAGUGAGGUCU CGACAAUG	30651
40	10990	UUGUCGGC G CACUGUGC	12277	GCACAGUG GCCGAAAGGCGAGUGAGGUCU GCCGACAA	30652
45	10985	GGCGCACU G UGCCGUGU	12278	ACACGGCA GCCGAAAGGCGAGUGAGGUCU AGUGCGCC	30653
47	10983	CGCACUGU G CCGUGUGG	12279	CCACACGG GCCGAAAGGCGAGUGAGGUCU ACAGUGCG	30654
50	10980	ACUGUGCC G UGUGGUG	12280	CAGCCACA GCCGAAAGGCGAGUGAGGUCU GGCACAGU	30655
52	10978	UGUGCCGU G UGGUGGU	12281	ACCAGCCA GCCGAAAGGCGAGUGAGGUCU ACGGCACA	30656
55	10975	GCCGUGUG G CUGGUGU	12282	ACAACCGA GCCGAAAGGCGAGUGAGGUCU CACACGGC	30657
59	10971	UGUGGUG G UUGUGCAG	12283	CUGCACA GCCGAAAGGCGAGUGAGGUCU CAGCCACA	30658
62	10968	GGCUGGUU G UGCAGAGC	12284	GCUCUGCA GCCGAAAGGCGAGUGAGGUCU AACCAGCC	30659
64	10966	CUGGUUGU G CAGAGCAG	12285	CUGCUCUG GCCGAAAGGCGAGUGAGGUCU ACAACCAG	30660
69	10961	UGUGCAGA G CAGAAGAU	12286	AUCUUCUG GCCGAAAGGCGAGUGAGGUCU UCUGCACA	30661
84	10946	AUCUCCUA G UCUAUCCC	12287	GGGAUAGA GCCGAAAGGCGAGUGAGGUCU UAGGAGAU	30662
95	10935	UAUCCAG G UGUCAAUA	12288	UAUUGACA GCCGAAAGGCGAGUGAGGUCU CUGGGAUA	30663
97	10933	UCCCAGGU G UCAUAUUG	12289	CAUAUUGA GCCGAAAGGCGAGUGAGGUCU ACCUGGGA	30664
105	10925	GUCAAUAU G CUGUUUG	12290	CAAAACAG GCCGAAAGGCGAGUGAGGUCU AUUAUGAC	30665
108	10922	AAUAUGCU G UUUUGUUG	12291	CAACAAAA GCCGAAAGGCGAGUGAGGUCU AGCAUAU	30666
113	10917	GCUGUUUU G UUGUGGUG	12292	CACCACAA GCCGAAAGGCGAGUGAGGUCU AAAACAGC	30667
116	10914	GUUUUGUU G UGGUGUUU	12293	AAACACCA GCCGAAAGGCGAGUGAGGUCU AACAAAAC	30668
119	10911	UUGUUGUG G UGUUUUGU	12294	ACAAAACA GCCGAAAGGCGAGUGAGGUCU CACAACAA	30669
121	10909	GUUGUGGU G UUUUGUGG	12295	CCACAAAA GCCGAAAGGCGAGUGAGGUCU ACCACAAC	30670
126	10904	GGUGUUUU G UGGCACGG	12296	CCGUGCCA GCCGAAAGGCGAGUGAGGUCU AAAACACC	30671
129	10901	GUUUUGUG G CACGGGGU	12297	ACCCCGUG GCCGAAAGGCGAGUGAGGUCU CACAAAAC	30672
136	10894	GGCACGGG G UCUCACU	12298	AGUGGAGA GCCGAAAGGCGAGUGAGGUCU CCCGUGCC	30673
153	10877	AACCUUA G UCCUCCCC	12299	GGGAAGGA GCCGAAAGGCGAGUGAGGUCU UAGAGGUU	30674
172	10858	GACCUACA G CUUCAGUC	12300	GACUGAAG GCCGAAAGGCGAGUGAGGUCU UGUAGGUC	30675
178	10852	CAGCUUCA G UCAGGCUG	12301	CAGCCUGA GCCGAAAGGCGAGUGAGGUCU UGAAGCUG	30676
183	10847	UCAGUCAG G CUGGGCCG	12302	CGGCCAG GCCGAAAGGCGAGUGAGGUCU CUGACUGA	30677
188	10842	CAGGCGUG G CCGUGCAC	12303	GUGCACGG GCCGAAAGGCGAGUGAGGUCU CCAGCCUG	30678
191	10839	GCUGGGCC G UGCACUUU	12304	AAAGUGCA GCCGAAAGGCGAGUGAGGUCU GGCCACGC	30679
193	10837	UGGGCCGU G CACUUUAA	12305	UUAAGUG GCCGAAAGGCGAGUGAGGUCU ACGGCCCA	30680
205	10825	UUUAAAC G CGGGUCU	12306	AGACCCCG GCCGAAAGGCGAGUGAGGUCU GGUUUAAA	30681
210	10820	ACCGCGGG G UCUCUCU	12307	AGAGGAGA GCCGAAAGGCGAGUGAGGUCU CCCGCGU	30682
227	10803	AACCUUA G UCCUUUCG	12308	CGAAAGGA GCCGAAAGGCGAGUGAGGUCU UAGAGGUU	30683
235	10795	GUCCUUC G CCCUGGUU	12309	AACCAGGG GCCGAAAGGCGAGUGAGGUCU GAAAGGAC	30684
241	10789	UCGCCUG G UUAACACC	12310	GGUGUUA GCCGAAAGGCGAGUGAGGUCU CAGGGCGA	30685
259	10771	UUACCGGG G CUAGGGCC	12311	GGCCCUAG GCCGAAAGGCGAGUGAGGUCU CCCGUUAA	30686
265	10765	GGGCUAGG G CCGCGUGG	12312	CCACGCGG GCCGAAAGGCGAGUGAGGUCU CCUAGCCC	30687
268	10762	CUAGGGCC G CGUGGGGC	12313	GCCCCACG GCCGAAAGGCGAGUGAGGUCU GGCCCUAG	30688
270	10760	AGGGCCCG G UGGGGCGU	12314	ACGCCCCA GCCGAAAGGCGAGUGAGGUCU GCGGCCCU	30689
275	10755	CGCGUGGG G CGUUGGUU	12315	AACCAACG GCCGAAAGGCGAGUGAGGUCU CCCACGCG	30690
277	10753	CGUGGGGC G UUGGUUG	12316	CAAAACCA GCCGAAAGGCGAGUGAGGUCU GCCCCACG	30691
281	10749	GGGCGUUG G UUGCCUU	12317	AAGGCAA GCCGAAAGGCGAGUGAGGUCU CAACGCCC	30692
285	10745	GUUGGUUU G CCUUUGUU	12318	AACAAAGG GCCGAAAGGCGAGUGAGGUCU AAACCAAC	30693
291	10739	UUGCCUUU G UUAACCCA	12319	UGGGUUAA GCCGAAAGGCGAGUGAGGUCU AAAGGCAA	30694
300	10730	UUAACCCA G UCCUCCUG	12320	CAGGAGGA GCCGAAAGGCGAGUGAGGUCU UGGGUUAA	30695
311	10719	CUCCUGGG G CACUAUCG	12321	CGAUAGUG GCCGAAAGGCGAGUGAGGUCU CCCAGGAG	30696
319	10711	GCACUAUC G CAGACUGC	12322	GCAGUCUG GCCGAAAGGCGAGUGAGGUCU GAUAGUGC	30697
326	10704	CGCAGACU G CACUCUCC	12323	GGAGAGUG GCCGAAAGGCGAGUGAGGUCU AGUCGCG	30698
335	10695	CACUCUCC G CAGAGUAG	12324	CUACUCUG GCCGAAAGGCGAGUGAGGUCU GGAGAGUG	30699
340	10690	UCCGCAGA G UAGCACGC	12325	GCGUGCUA GCCGAAAGGCGAGUGAGGUCU UCUGCGGA	30700
343	10687	GCAGAGUA G CACGCCGU	12326	ACGGCGUG GCCGAAAGGCGAGUGAGGUCU UACUCUGC	30701
347	10683	AGUAGCAC G CCGUAGCG	12327	CGCUACGG GCCGAAAGGCGAGUGAGGUCU GUGCUACU	30702
350	10680	AGCACGCC G UAGCGUGG	12328	CCACGCUA GCCGAAAGGCGAGUGAGGUCU GCGUGCU	30703
353	10677	ACGCCGUA G CGUGGUCU	12329	AGACCACG GCCGAAAGGCGAGUGAGGUCU UACGGCGU	30704

355	10675	GCCGUAGC G UGGUCUGA	12330	UCAGACCA GCCGAAAGGCGAGUGAGGUCU	GCUACGGC	30705
358	10672	GUAGCGUG G UCUGACAU	12331	AUGUCAGA GCCGAAAGGCGAGUGAGGUCU	CACGCUAC	30706
370	10660	GACAUUGG G CUUUGAAG	12332	CUUCAAG GCCGAAAGGCGAGUGAGGUCU	CCAUGUC	30707
378	10652	GCUUUGAA G UUAACAACA	12333	UGUUGUAA GCCGAAAGGCGAGUGAGGUCU	UUCAAGC	30708
388	10642	UACAACAU G UGGGGUCC	12334	GGACCCCA GCCGAAAGGCGAGUGAGGUCU	AUGUUGUA	30709
393	10637	CAUGUGGG G UCCUCCUU	12335	AAGGAGGA GCCGAAAGGCGAGUGAGGUCU	CCCACAUG	30710
410	10620	CCGAGACG G UUCUGAGG	12336	CCUCAGAA GCCGAAAGGCGAGUGAGGUCU	CGUCUCGG	30711
419	10611	UUCUGAGG G CUUACAUG	12337	CAUGUAAG GCCGAAAGGCGAGUGAGGUCU	CCUCAGAA	30712
437	10593	AUCACUUC G CGGCUUUG	12338	CAAAGCCG GCCGAAAGGCGAGUGAGGUCU	GAAGUGAU	30713
440	10590	ACUUCGCG G CUUUGUUC	12339	GAACAAAG GCCGAAAGGCGAGUGAGGUCU	CGCGAAGU	30714
445	10585	GCGGCUUU G UUCACCCA	12340	UGGGUGAA GCCGAAAGGCGAGUGAGGUCU	AAAGCCGC	30715
454	10576	UUCACCCA G UCCUCCUG	12341	CAGGAGGA GCCGAAAGGCGAGUGAGGUCU	UGGGUGAA	30716
465	10565	CUCCUGGG G UUGAGUCC	12342	CGACUCAA GCCGAAAGGCGAGUGAGGUCU	CCCAGGAG	30717
470	10560	GGGUUGA G UCGCAGCG	12343	GCCUGCGA GCCGAAAGGCGAGUGAGGUCU	UCAACCCC	30718
473	10557	GUUGAGUC G CAGGCAGC	12344	GCUGCCUG GCCGAAAGGCGAGUGAGGUCU	GACUCAAC	30719
477	10553	AGUCGCAG G CAGCACCG	12345	CGGUGCUG GCCGAAAGGCGAGUGAGGUCU	CUGCGACU	30720
480	10550	CGCAGGCA G CACCGUCU	12346	AGACGGUG GCCGAAAGGCGAGUGAGGUCU	UGCCUGCG	30721
485	10545	GCAGCACC G UCUACUCA	12347	UGAGUAGA GCCGAAAGGCGAGUGAGGUCU	GGUGCUGC	30722
501	10529	AACUUCCG G UGGCGGGA	12348	UCCCGCCA GCCGAAAGGCGAGUGAGGUCU	CGGAAGUU	30723
504	10526	UUCCGGUG G CGGGAACU	12349	AGUUCCCG GCCGAAAGGCGAGUGAGGUCU	CACCGGAA	30724
518	10512	ACUUCCCG G CCUGACUU	12350	AAGUCAGG GCCGAAAGGCGAGUGAGGUCU	CGGGAAGU	30725
595	10435	ACUUUUAU G CAUACUUA	12351	UAAGUAUG GCCGAAAGGCGAGUGAGGUCU	AUAAAAGU	30726
608	10422	CUUAUAUU G UCUAUUUA	12352	UAAUAAGA GCCGAAAGGCGAGUGAGGUCU	AAUAUAAG	30727
637	10393	UAUCUACA G UACUGUGU	12353	ACACAGUA GCCGAAAGGCGAGUGAGGUCU	UGUAUAUA	30728
642	10388	ACAGUACU G UGUCCUCA	12354	UGAGGACA GCCGAAAGGCGAGUGAGGUCU	AGUACUGU	30729
644	10386	AGUACUGU G UCCUCAAC	12355	GUUGAGGA GCCGAAAGGCGAGUGAGGUCU	ACAGUACU	30730
657	10373	CAACCAAA G UUGUGUCU	12356	AGACACAA GCCGAAAGGCGAGUGAGGUCU	UUUGGUUG	30731
660	10370	CCAAAGUU G UGUUCUCA	12357	UGAAGACA GCCGAAAGGCGAGUGAGGUCU	AACUUUGG	30732
662	10368	AAAGUUGU G UCUUCAUA	12358	UAUGAAGA GCCGAAAGGCGAGUGAGGUCU	ACAACUUU	30733
679	10351	UCUCUUUA G UGAACUCA	12359	UGAGUUAU GCCGAAAGGCGAGUGAGGUCU	UAAAGAGA	30734
689	10341	GAACUCAU G UAAUCCAC	12360	UGGAUUAU GCCGAAAGGCGAGUGAGGUCU	AAGAUUUC	30735
720	10310	CGAUGAUU G CUCUGACU	12361	AGUCAGAG GCCGAAAGGCGAGUGAGGUCU	AAUCAUCG	30736
731	10299	CUGACUUG G UUGAUAGC	12362	GTUAUCAA GCCGAAAGGCGAGUGAGGUCU	CAAGUCAG	30737
738	10292	GUUGAUUA G CCACCUUG	12363	CCAGGUGG GCCGAAAGGCGAGUGAGGUCU	UAUCAACC	30738
749	10281	ACCUGGAU G UUUUCUGC	12364	GCAGAAAA GCCGAAAGGCGAGUGAGGUCU	AUCCAGGU	30739
756	10274	UGUUUUUC G CCCACGUG	12365	CACGUGGG GCCGAAAGGCGAGUGAGGUCU	AGAAAACA	30740
762	10268	CUGCCAC G UGGCUCGG	12366	CCGAGCCA GCCGAAAGGCGAGUGAGGUCU	GUGGGCAG	30741
765	10265	CCCACGUG G CUCGGGCU	12367	AGCCCGAG GCCGAAAGGCGAGUGAGGUCU	CACGUGGG	30742
771	10259	UGGCUCGG G CUCUUGUG	12368	CACAAGAG GCCGAAAGGCGAGUGAGGUCU	CCGAGCCA	30743
777	10253	GGGCUCUU G UGCCAAUC	12369	GAUUGGCA GCCGAAAGGCGAGUGAGGUCU	AAGAGCCC	30744
779	10251	GCUCUUGU G CCAAUCCAG	12370	CUGAUUGG GCCGAAAGGCGAGUGAGGUCU	ACAAGAGC	30745
788	10242	CCAAUCAG G CUGCCACA	12371	UGUGGCAG GCCGAAAGGCGAGUGAGGUCU	CUGAUUGG	30746
791	10239	AUCAGGCU G CCACACCA	12372	UGGUGUGG GCCGAAAGGCGAGUGAGGUCU	AGCCUGAU	30747
803	10227	CACCAGAU G UCCUCUCG	12373	CGAGAGGA GCCGAAAGGCGAGUGAGGUCU	AUCUGGUG	30748
811	10219	GUCCUCUC G UUUUCCUG	12374	CAGGAAAA GCCGAAAGGCGAGUGAGGUCU	GAGAGGAC	30749
830	10200	UAUGGGAC G UCACUCCA	12375	UGGAGUGA GCCGAAAGGCGAGUGAGGUCU	GUCCCAUA	30750
852	10178	CCACUGGG G UUUUGUCU	12376	AGACAAAA GCCGAAAGGCGAGUGAGGUCU	CCCAGUGG	30751
857	10173	GGGGUUUU G UCUUCCAU	12377	AUGGAAGA GCCGAAAGGCGAGUGAGGUCU	AAAACCCC	30752
893	10137	CAAACACG G UUCACAGC	12378	GUCUGGAA GCCGAAAGGCGAGUGAGGUCU	CGUGUUUG	30753
911	10119	UCCAACAU G UCCUCUGU	12379	ACAGAGGA GCCGAAAGGCGAGUGAGGUCU	AUGUUGGA	30754
918	10112	UGUCCUCU G UUGUCAUC	12380	GAUGACAA GCCGAAAGGCGAGUGAGGUCU	AGAGGACA	30755
921	10109	CCUCUGUU G UCAUCCAC	12381	GUGGAUGA GCCGAAAGGCGAGUGAGGUCU	AACAGAGG	30756
939	10091	CUCCUCCU G CAUGGAUG	12382	CAUCCAUG GCCGAAAGGCGAGUGAGGUCU	AGGAGGAG	30757
954	10076	UGGACCAC G UGGUUCUU	12383	AAGAACCA GCCGAAAGGCGAGUGAGGUCU	GUGGUCCA	30758
957	10073	ACCACGUG G UUCUUCGG	12384	CGGAAGAA GCCGAAAGGCGAGUGAGGUCU	CACGUGGU	30759
966	10064	UUCUUCGG G UAGGGACC	12385	GGUCCCUA GCCGAAAGGCGAGUGAGGUCU	CGGAAGAA	30760
990	10040	CAGGGACA G CGGAGCAA	12386	UUGCUCCG GCCGAAAGGCGAGUGAGGUCU	UGUCCUG	30761
995	10035	ACAGCGGA G CAAAUGGC	12387	GCCAUUUG GCCGAAAGGCGAGUGAGGUCU	UCCGUGU	30762
1002	10028	AGCAAAUG G CGUUGGCC	12388	GGCCAACG GCCGAAAGGCGAGUGAGGUCU	CAUUUGCU	30763
1004	10026	CAAAUGGC G UUGGCCAU	12389	AUGGCCAA GCCGAAAGGCGAGUGAGGUCU	GCCAUUUG	30764
1008	10022	UGGCGUUG G CCAUGAGC	12390	GCUCAUGG GCCGAAAGGCGAGUGAGGUCU	CAACGCCA	30765
1015	10015	GGCCAUGA G CCGCAGGU	12391	ACCUGCGG GCCGAAAGGCGAGUGAGGUCU	UCAUGGCC	30766

Table X

1018	10012	CAUGAGCC G CAGGUCUC	12392	GAGACCUG GCCGAAAGGCGAGUGAGGUCU	GGCUCAUG	30767
1022	10008	AGCCGCAG G UCUCUUCU	12393	AGAAGAGA GCCGAAAGGCGAGUGAGGUCU	CUGC GGCU	30768
1031	9999	UCUCUUCU G UGGAAGUA	12394	UACUUGCA GCCGAAAGGCGAGUGAGGUCU	AGAAGAGA	30769
1037	9993	CUGUGGAA G UACAGAAG	12395	CUUCUGUA GCCGAAAGGCGAGUGAGGUCU	UUCACAG	30770
1045	9985	GUACAGAA G CAGCCACA	12396	UGUGGCUG GCCGAAAGGCGAGUGAGGUCU	UUCUGUAC	30771
1048	9982	CAGAAGCA G CCACAUUCU	12397	AGAUGUGG GCCGAAAGGCGAGUGAGGUCU	UGCUUCUG	30772
1059	9971	ACAUCUGG G CAUAAGAC	12398	GUCUUAUG GCCGAAAGGCGAGUGAGGUCU	CCAGAUGU	30773
1071	9959	AAGACUUA G CCAGACAA	12399	UUGUCUGG GCCGAAAGGCGAGUGAGGUCU	UAAGUCUU	30774
1080	9950	CCAGACAA G CAGUGUCG	12400	CGACACUG GCCGAAAGGCGAGUGAGGUCU	UUGUCUGG	30775
1083	9947	GACAAGCA G UGUCGCGG	12401	CCGCGACA GCCGAAAGGCGAGUGAGGUCU	UGCUUGUC	30776
1085	9945	CAAGCAGU G UCGCGGAC	12402	GUCGCGCA GCCGAAAGGCGAGUGAGGUCU	ACUGCUUG	30777
1088	9942	GCAGUGUC G CGGACGUU	12403	AACGUCGG GCCGAAAGGCGAGUGAGGUCU	GACACUGC	30778
1094	9936	UCGCGGAC G UUCAUCC	12404	GGAUGGAA GCCGAAAGGCGAGUGAGGUCU	GUCCGCGA	30779
1104	9926	UCCAUCGG G CCCUGGA	12405	UCCAGGGG GCCGAAAGGCGAGUGAGGUCU	CGGAUGGA	30780
1118	9912	GGAGAUUA G CGAGCUCU	12406	AGAGCUCG GCCGAAAGGCGAGUGAGGUCU	AUAUCUCC	30781
1122	9908	AUAUGCGA G CUCUGCCU	12407	AGGCAGAG GCCGAAAGGCGAGUGAGGUCU	UCGCAUAU	30782
1127	9903	CGAGCUCU G CCUACCAA	12408	UUGGUAGG GCCGAAAGGCGAGUGAGGUCU	AGAGCUCG	30783
1144	9886	UUCAUCCU G UCCUCGGC	12409	CCGAGGA GCCGAAAGGCGAGUGAGGUCU	AGGAUGAA	30784
1151	9879	UGUCCUCG G CAUGGAAC	12410	GUUCCAUG GCCGAAAGGCGAGUGAGGUCU	CGAGGACA	30785
1165	9865	AACCACCA G UGUUCUUC	12411	GAAGAACA GCCGAAAGGCGAGUGAGGUCU	UGGUGGUU	30786
1167	9863	CCACCAGU G UUCUUGCA	12412	UGGAAGAA GCCGAAAGGCGAGUGAGGUCU	ACUGGUGG	30787
1194	9836	UCAAUUCA G UGAAUUGG	12413	CCAUUUCA GCCGAAAGGCGAGUGAGGUCU	UGAAUUGA	30788
1202	9828	GUGAAUUG G UUUGAGCA	12414	UGCUCAAA GCCGAAAGGCGAGUGAGGUCU	CAUUUCAC	30789
1208	9822	UGGUUUGA G CAAAUGG	12415	CCAUUUUG GCCGAAAGGCGAGUGAGGUCU	UCAAAACA	30790
1222	9808	UGGAACCU G CUGCCAAU	12416	AUUGGCAG GCCGAAAGGCGAGUGAGGUCU	AGGUUCCA	30791
1225	9805	AACCUGCU G CCAAUCAU	12417	AUGAUUGG GCCGAAAGGCGAGUGAGGUCU	AGCAGUUU	30792
1242	9788	ACCAUCCA G UUGACGGU	12418	ACCGUCAA GCCGAAAGGCGAGUGAGGUCU	UGGAUGGU	30793
1249	9781	AGUUGACG G UUUCCACU	12419	AGUGGAAA GCCGAAAGGCGAGUGAGGUCU	CGUCAACU	30794
1265	9765	UCUUGGAU G UCUIUGCG	12420	CGCAAAGA GCCGAAAGGCGAGUGAGGUCU	AUCCAAGA	30795
1271	9759	AUGUCUUU G CGAACCUU	12421	AAGGUUCG GCCGAAAGGCGAGUGAGGUCU	AAAGACAU	30796
1287	9743	UUGACAUU G CAUUGAGG	12422	CCUCAUUG GCCGAAAGGCGAGUGAGGUCU	UAUGUCA	30797
1298	9732	UUGAGGAA G UGGAGCGA	12423	UCGCUCCA GCCGAAAGGCGAGUGAGGUCU	UUCCUCA	30798
1303	9727	GAAGUGGA G CGAGUGG	12424	CCACCUCG GCCGAAAGGCGAGUGAGGUCU	UCCACUUC	30799
1308	9722	GGAGCGAG G UGGCAAAG	12425	CUUUGCCA GCCGAAAGGCGAGUGAGGUCU	CGCGUCC	30800
1311	9719	GCGAGGUG G CAAAGCGA	12426	UCGCUUUG GCCGAAAGGCGAGUGAGGUCU	CACCUCGC	30801
1316	9714	GUGGCAA G CGAUCGUC	12427	GACGAUCG GCCGAAAGGCGAGUGAGGUCU	UUUGCCAC	30802
1322	9708	AAGCGAUC G UCCAGGGG	12428	CCCCUGGA GCCGAAAGGCGAGUGAGGUCU	GAUCGCUU	30803
1330	9700	GUCCAGGG G CUUUACCA	12429	UGGUAAAG GCCGAAAGGCGAGUGAGGUCU	CCUGGAC	30804
1343	9687	ACCACACA G UCAUUCUCC	12430	GGAGAUGA GCCGAAAGGCGAGUGAGGUCU	UGUGUGGU	30805
1359	9671	CACUGACA G CCAUGCGG	12431	CCGCAUGG GCCGAAAGGCGAGUGAGGUCU	UGUCAGUG	30806
1364	9666	ACAGCCAU G CGGCUGAG	12432	CUCAGCCG GCCGAAAGGCGAGUGAGGUCU	UAGGCUUG	30807
1367	9663	GCCAUGCG G CUGAGUCU	12433	ACACUCAG GCCGAAAGGCGAGUGAGGUCU	CGAGUUGG	30808
1372	9658	GCGGUGA G UCUUUCU	12434	AAGAAAGA GCCGAAAGGCGAGUGAGGUCU	UCAGCCGC	30809
1396	9634	CUCAAACA G CCAGGUCC	12435	GGACCUGG GCCGAAAGGCGAGUGAGGUCU	UGUUUGAG	30810
1401	9629	ACAGCCAG G UCCUGACU	12436	AGUCAGGA GCCGAAAGGCGAGUGAGGUCU	CUGGCUGU	30811
1414	9616	GACUUGG G UCCUUCUCC	12437	GGAAAGGA GCCGAAAGGCGAGUGAGGUCU	CCAAAGUC	30812
1428	9602	UCCUUUUU G UGAGUUC	12438	GAAACUCA GCCGAAAGGCGAGUGAGGUCU	AAAAGGGA	30813
1432	9598	UUUUGUGA G UUUCUCCA	12439	UGGAGAAA GCCGAAAGGCGAGUGAGGUCU	UCACAAA	30814
1451	9579	UCAUCUGG G CCAUACAC	12440	GUGAUUGG GCCGAAAGGCGAGUGAGGUCU	CCAGAUGA	30815
1486	9544	CCUACACA G CUGGACGG	12441	CCGUCCAG GCCGAAAGGCGAGUGAGGUCU	UGGUGAGG	30816
1494	9536	GCUGGACG G CCAGGUUG	12442	CAACCUGG GCCGAAAGGCGAGUGAGGUCU	CGUCCAGC	30817
1499	9531	ACGGCCAG G UUGGUGAA	12443	UUCACCAA GCCGAAAGGCGAGUGAGGUCU	CUGGCCGU	30818
1503	9527	CCAGGUUG G UGAAAGUG	12444	CACUUUCA GCCGAAAGGCGAGUGAGGUCU	CAACCUGG	30819
1509	9521	UGGUGAAA G UGUUAGG	12445	CCUAAACA GCCGAAAGGCGAGUGAGGUCU	UUUACCA	30820
1511	9519	GUGAAAGU G UUUAGGGC	12446	GCCUAAA GCCGAAAGGCGAGUGAGGUCU	ACUUUCAC	30821
1518	9512	UGUUUAGG G CGUAGGUG	12447	CACCUACG GCCGAAAGGCGAGUGAGGUCU	CCUAAACA	30822
1520	9510	UUUAGGGC G UAGGUGAC	12448	GUCACCUA GCCGAAAGGCGAGUGAGGUCU	GCCUAAA	30823
1524	9506	GGCGUAG G UGACAAU	12449	AGUUGUCA GCCGAAAGGCGAGUGAGGUCU	CUACGCC	30824
1534	9496	GACAACUU G UCCAUCC	12450	GGAGUGGA GCCGAAAGGCGAGUGAGGUCU	AAGUUGUC	30825
1578	9452	CCAUGACG G UUCUUGCA	12451	UGGAAGAA GCCGAAAGGCGAGUGAGGUCU	CGUCAUGG	30826
1590	9440	UCCAUCUA G CAGCCGGG	12452	CCCGGCGU GCCGAAAGGCGAGUGAGGUCU	UGAUGGAA	30827
1593	9437	CAUCAGCA G CCGGGCGC	12453	GGCCCGG GCCGAAAGGCGAGUGAGGUCU	UGCUAUG	30828

1598	9432	GCAGCCGG G CGCAUCAC	12454	GUGAUGCG GCCGAAAGGCGAGUGAGGUCU	CCGGCUGC	30829
1600	9430	AGCCGGGC G CAUCACUU	12455	AAGUGAUG GCCGAAAGGCGAGUGAGGUCU	GCCCGGCU	30830
1619	9411	ACAACUUU G UGACGAUA	12456	UAUCGUCA GCCGAAAGGCGAGUGAGGUCU	AAAGUUGU	30831
1629	9401	GACGAUAG G UGAGCUCA	12457	UGAGCUCA GCCGAAAGGCGAGUGAGGUCU	CUAUCGUC	30832
1633	9397	AUAGGUGA G CUCAAUGA	12458	UCAUUGAG GCCGAAAGGCGAGUGAGGUCU	UCACCUAU	30833
1644	9386	CAAUGAUG G CCCUGGCA	12459	UGCCAGGG GCCGAAAGGCGAGUGAGGUCU	CAUCAUUG	30834
1650	9380	UGGCCUG G CAAGACGC	12460	GCGUCUUG GCCGAAAGGCGAGUGAGGUCU	CAGGGCCA	30835
1657	9373	GGCAAGAC G CCGAUGUU	12461	AACAUCGG GCCGAAAGGCGAGUGAGGUCU	GUCUUGCC	30836
1663	9367	ACGCCGAU G UUCCCAU	12462	AUGGGGAA GCCGAAAGGCGAGUGAGGUCU	AUCGGCGU	30837
1675	9355	CCCAUCA G CAGCUCAA	12463	UUGAGCUG GCCGAAAGGCGAGUGAGGUCU	UUGAUGGG	30838
1678	9352	AUCAAGCA G CUCAAGCA	12464	UGCUUGAG GCCGAAAGGCGAGUGAGGUCU	UGCUUGAU	30839
1684	9346	CAGCUCAA G CACCUUAG	12465	CUAAGGUG GCCGAAAGGCGAGUGAGGUCU	UUGAGCUG	30840
1692	9338	GCACCUUA G CUUCAUUU	12466	AAUGAAG GCCGAAAGGCGAGUGAGGUCU	UAAGGUGC	30841
1706	9324	UUUCCAA G UCAGCUCU	12467	AGAGCUGA GCCGAAAGGCGAGUGAGGUCU	UUGGAAAA	30842
1710	9320	CCAAGUCA G CUCUCGUG	12468	CACGAGAG GCCGAAAGGCGAGUGAGGUCU	UGACTUUG	30843
1716	9314	CAGCUCUC G UGAUGCGG	12469	CCGCAUCA GCCGAAAGGCGAGUGAGGUCU	GAGAGCUG	30844
1721	9309	CUCGUGAU G CGGGUGUC	12470	GACACCCG GCCGAAAGGCGAGUGAGGUCU	AUCACGAG	30845
1725	9305	UGAUGCGG G UGUCCCAG	12471	CUGGGACA GCCGAAAGGCGAGUGAGGUCU	CCCAUCA	30846
1727	9303	AUGCGGGU G UCCCAGCC	12472	GGCUGGGA GCCGAAAGGCGAGUGAGGUCU	ACCCGCAU	30847
1733	9297	GUGUCCCA G CCAGCUGU	12473	ACAGCUGG GCCGAAAGGCGAGUGAGGUCU	UGGGACAC	30848
1737	9293	CCCAGCCA G CUGUGUCA	12474	UGACACAG GCCGAAAGGCGAGUGAGGUCU	UGGCUGGG	30849
1740	9290	AGCCAGCU G UGUCAUCA	12475	UGAUGACA GCCGAAAGGCGAGUGAGGUCU	AGCUGGCU	30850
1742	9288	CCAGCUGU G UCAUCAGC	12476	GTUGAUGA GCCGAAAGGCGAGUGAGGUCU	ACAGCUGG	30851
1749	9281	UGUCAUCA G CAUAGAUC	12477	GAUCUAUG GCCGAAAGGCGAGUGAGGUCU	UGAUGACA	30852
1760	9270	UAGAUCUU G CCCCAGG	12478	CCUGGGGG GCCGAAAGGCGAGUGAGGUCU	AAGAUCUA	30853
1768	9262	GCCCCCAG G CCGGGUGC	12479	GCACCCGG GCCGAAAGGCGAGUGAGGUCU	CUGGGGGC	30854
1773	9257	CAGGCCGG G UGCCAACU	12480	AGUUGGGA GCCGAAAGGCGAGUGAGGUCU	CCGGCCUG	30855
1775	9255	GGCCGGGU G CCAACUUC	12481	GAAGUUGG GCCGAAAGGCGAGUGAGGUCU	ACCCGGCC	30856
1786	9244	AACUUCAC G CAGGAUGU	12482	ACAUCCUG GCCGAAAGGCGAGUGAGGUCU	GUGAAGUU	30857
1793	9237	CGCAGGAU G UAACCCAG	12483	CUGGGUUA GCCGAAAGGCGAGUGAGGUCU	AUCCUGCG	30858
1801	9229	GUAACCCA G UUUUUGGA	12484	UCCAAAAA GCCGAAAGGCGAGUGAGGUCU	UGGGUUAC	30859
1811	9219	UUUUGGAG G CCAAGCC	12485	GGCUUGGG GCCGAAAGGCGAGUGAGGUCU	CUCCAAAA	30860
1817	9213	AGGCCCAA G CCCUCGAC	12486	GUCGAGGG GCCGAAAGGCGAGUGAGGUCU	UUGGGCCU	30861
1838	9192	CCUCCUGA G UUCUUUCU	12487	AGAAAGAA GCCGAAAGGCGAGUGAGGUCU	UCAGGAGG	30862
1852	9178	UCUCCAA G CCAGUGGU	12488	ACCACUGG GCCGAAAGGCGAGUGAGGUCU	UUGGAAGA	30863
1856	9174	CCAAGCCA G UGUUCUUC	12489	GAAGACCA GCCGAAAGGCGAGUGAGGUCU	UGGCUUGG	30864
1859	9171	AGCCAGUG G UCUUCAUU	12490	AAUGAAGA GCCGAAAGGCGAGUGAGGUCU	CACUUGGU	30865
1881	9149	AACCCAGA G CCUCGAAC	12491	GUUCGAGG GCCGAAAGGCGAGUGAGGUCU	UUGGGUUU	30866
1898	9132	UCCAGAAA G CGAGCUCC	12492	GGAGCUCG GCCGAAAGGCGAGUGAGGUCU	UUUCUGGA	30867
1902	9128	GAAAGCGA G CUCCGAGC	12493	GCUCGGAG GCCGAAAGGCGAGUGAGGUCU	UCGCUUUC	30868
1909	9121	AGCUCCGA G CCACAUGA	12494	UCAUGUGG GCCGAAAGGCGAGUGAGGUCU	UCGAGAGU	30869
1926	9104	ACCAAUG G CUCUGCUU	12495	AAGCAGAG GCCGAAAGGCGAGUGAGGUCU	CAUUUGGU	30870
1931	9099	AUGGCUCU G CUUCCCUU	12496	AAGGGAAG GCCGAAAGGCGAGUGAGGUCU	AGAGCCAU	30871
1941	9089	UUCUUUG G CUUUCUG	12497	CGGAAAGG GCCGAAAGGCGAGUGAGGUCU	CAAGGGAA	30872
1960	9070	CUCUCCGG G UUUUUUCU	12498	AGAAAAA GCCGAAAGGCGAGUGAGGUCU	CCGAGAG	30873
1985	9045	CCCAUCAU G UUGUAAAU	12499	AUUUACAA GCCGAAAGGCGAGUGAGGUCU	AUGAUGGG	30874
1988	9042	AUCAUGUU G UAAUGCA	12500	UGCAUUUA GCCGAAAGGCGAGUGAGGUCU	AACAUGAU	30875
1994	9036	UUGUAAAU G CAAGUGUG	12501	CACACUUG GCCGAAAGGCGAGUGAGGUCU	AUUUACAA	30876
1998	9032	AAAUAGCA G UGUGACAU	12502	AUGUCACA GCCGAAAGGCGAGUGAGGUCU	UUGCAUUU	30877
2000	9030	AUGCAAGU G UGACAUUC	12503	GAAUGUCA GCCGAAAGGCGAGUGAGGUCU	ACUUGCAU	30878
2014	9016	UUCUUUUU G CAGAUUG	12504	CACAUCUG GCCGAAAGGCGAGUGAGGUCU	GGGGGAA	30879
2020	9010	CCGAGAU G UGCCUCGC	12505	GCGAGGCA GCCGAAAGGCGAGUGAGGUCU	AUCUGCGG	30880
2022	9008	GCAGAUUG G CCUCGCGC	12506	GCGCGAGG GCCGAAAGGCGAGUGAGGUCU	ACAUUGGC	30881
2027	9003	UGUGCCUC G CGCUCUC	12507	GAGGAGCG GCCGAAAGGCGAGUGAGGUCU	GAGGCACA	30882
2029	9001	UGCCUCGC G CUCCUCAU	12508	AUGAGGAG GCCGAAAGGCGAGUGAGGUCU	GCGAGGCA	30883
2070	8960	CUUCAACU G CUUCUCUG	12509	CAGAGAAG GCCGAAAGGCGAGUGAGGUCU	AGUUGAAG	30884
2079	8951	CUUCUCUG G CGCUCUC	12510	GAGGAGCG GCCGAAAGGCGAGUGAGGUCU	CAGAGAAG	30885
2081	8949	UCUCUGGC G CUCCUCCA	12511	UGGAGGAG GCCGAAAGGCGAGUGAGGUCU	GCCAGAGA	30886
2098	8932	UUGAUUCU G CUCUUCAA	12512	UUGAAGAG GCCGAAAGGCGAGUGAGGUCU	AGAAUCAA	30887
2112	8918	CAACAUG G CACCCAAA	12513	UUUGGGUG GCCGAAAGGCGAGUGAGGUCU	CAUGUUUG	30888
2121	8909	CACCCAAA G CUGCAUUG	12514	CAAUGCAG GCCGAAAGGCGAGUGAGGUCU	UUUGGGUG	30889
2124	8906	CCAAAGCU G CAUUGCUG	12515	CAGCAAUG GCCGAAAGGCGAGUGAGGUCU	AGCUUUGG	30890

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2129	8901	GCUGCAU G	CUGUUGAC	12516	GUCAACAG	GCCGAAAGGCGAGUGAGGUCU	AAUGCAGC	30891
2132	8898	GCAUUGCU G	UUGACCUU	12517	AAGGUCAA	GCCGAAAGGCGAGUGAGGUCU	AGCAAUGC	30892
2162	8868	UCUCGAGA G	CACAUUCU	12518	AGAAUGUG	GCCGAAAGGCGAGUGAGGUCU	UCUCGAGA	30893
2176	8854	UCUGGGAC G	UUUUUCUC	12519	GAGAAAAA	GCCGAAAGGCGAGUGAGGUCU	GUCCGAGA	30894
2187	8843	UUUCUCUG G	CCAAAAAC	12520	GUUUUUGG	GCCGAAAGGCGAGUGAGGUCU	CAGAGAAA	30895
2196	8834	CCAAAAAC G	CCCACAAC	12521	GUUGUGGG	GCCGAAAGGCGAGUGAGGUCU	GUUUUUGG	30896
2207	8823	CACAACCA G	UUGGUGGU	12522	ACCACCAA	GCCGAAAGGCGAGUGAGGUCU	UGGUUGUG	30897
2211	8819	ACCAGUUG G	UGGUCUCA	12523	UGAGACCA	GCCGAAAGGCGAGUGAGGUCU	CAACUGGU	30898
2214	8816	AGUUGGUG G	UCUCAUUG	12524	CAUUGAGA	GCCGAAAGGCGAGUGAGGUCU	CACCAACTU	30899
2224	8806	CUCAUUGA G	CACGUACU	12525	AGUACGUG	GCCGAAAGGCGAGUGAGGUCU	UCAUUGAG	30900
2228	8802	UUGAGCAC G	UACUUCAC	12526	GUGAAGUA	GCCGAAAGGCGAGUGAGGUCU	GUGUCUAA	30901
2245	8785	UCCUUCUG G	CGGUUCAG	12527	CUGAACCG	GCCGAAAGGCGAGUGAGGUCU	CAGAAGGA	30902
2248	8782	UUUGGGCG G	UUCAGGAG	12528	CUCUGAA	GCCGAAAGGCGAGUGAGGUCU	CGCCAGAA	30903
2256	8774	GUUCAGGA G	CUUUCGUG	12529	CACGAAAG	GCCGAAAGGCGAGUGAGGUCU	UCCUGAAC	30904
2262	8768	GAGCUUUC G	UGUCCACC	12530	GGUGGACA	GCCGAAAGGCGAGUGAGGUCU	GAAAGCUC	30905
2264	8766	GCUUUCGU G	UCCACCUU	12531	AAGGUGGA	GCCGAAAGGCGAGUGAGGUCU	ACGAAAGC	30906
2287	8743	GAACACUC G	CUGCUGCC	12532	GGCAGCAG	GCCGAAAGGCGAGUGAGGUCU	GAGUGUUC	30907
2290	8740	CACUCGCU G	CUGCCCGA	12533	UCGGGCGA	GCCGAAAGGCGAGUGAGGUCU	AGCGAGUG	30908
2293	8737	UCGUCUGU G	CCCGAAGG	12534	CCUUCGGG	GCCGAAAGGCGAGUGAGGUCU	AGCAGCGA	30909
2304	8726	CGAAGGGA G	UAGUGUCA	12535	UGACACUA	GCCGAAAGGCGAGUGAGGUCU	UCCCUUCG	30910
2307	8723	AGGGAGUA G	UGUCAGUC	12536	GACUGACA	GCCGAAAGGCGAGUGAGGUCU	UACUCCCU	30911
2309	8721	GGAGUAGU G	UCAGUCAU	12537	AUGACUGA	GCCGAAAGGCGAGUGAGGUCU	ACUACUCC	30912
2313	8717	UAGUGUCA G	UCAUGGCC	12538	GGCCAUGA	GCCGAAAGGCGAGUGAGGUCU	UGACACUA	30913
2319	8711	CAGUCAUG G	CCAUGGUG	12539	CACCAUGG	GCCGAAAGGCGAGUGAGGUCU	CAUGACUG	30914
2325	8705	UGGCCAUG G	UGGUAACA	12540	UGUUAACA	GCCGAAAGGCGAGUGAGGUCU	CAUGGCCA	30915
2328	8702	CCAUGGUG G	UAACAUUC	12541	GAAUGUUA	GCCGAAAGGCGAGUGAGGUCU	CACCAUGG	30916
2337	8693	UAACAUUC G	UGAUGGUG	12542	CACCAUCA	GCCGAAAGGCGAGUGAGGUCU	GAAUGUUA	30917
2343	8687	UCGUGAUG G	UGUCCCAU	12543	AUGGGACA	GCCGAAAGGCGAGUGAGGUCU	CAUCACGA	30918
2345	8685	GUGAUGGU G	UCCCAUGG	12544	CCAUGGGA	GCCGAAAGGCGAGUGAGGUCU	ACCAUCAC	30919
2353	8677	GUCCCAUG G	UUUUGAGA	12545	UCUCAAAA	GCCGAAAGGCGAGUGAGGUCU	CAUGGGAC	30920
2365	8665	UGAGAGGA G	CCUGACCA	12546	UGGUCAGG	GCCGAAAGGCGAGUGAGGUCU	UCCUCUCA	30921
2386	8644	AUUGACCA G	CGAACUGG	12547	CCAGUUCG	GCCGAAAGGCGAGUGAGGUCU	UGGUCAAU	30922
2394	8636	GCGAACUG G	CGGAGCCU	12548	AGGCUCUG	GCCGAAAGGCGAGUGAGGUCU	CAGUUCGC	30923
2399	8631	CUGGCGGA G	CCUGUGGG	12549	CCCACAGG	GCCGAAAGGCGAGUGAGGUCU	UCCGCCAG	30924
2403	8627	CGGAGCCU G	UGGGCUUC	12550	GAAGCCCA	GCCGAAAGGCGAGUGAGGUCU	AGGCUCCG	30925
2407	8623	GCCUGUGG G	CUUCACAU	12551	AUGUGAAG	GCCGAAAGGCGAGUGAGGUCU	CCACAGGC	30926
2423	8607	UCAUAACU G	CCGUGAUA	12552	UAUCACGG	GCCGAAAGGCGAGUGAGGUCU	AGUUAUGA	30927
2426	8604	UAACUGCC G	UGAUAGUU	12553	AACUAUCA	GCCGAAAGGCGAGUGAGGUCU	GGCAGUUA	30928
2432	8598	CCGUGAUA G	UUCACAGU	12554	ACCUGGAA	GCCGAAAGGCGAGUGAGGUCU	UAUCACGG	30929
2439	8591	AGUUCAGG G	UUCUAUUA	12555	AUAUAGAA	GCCGAAAGGCGAGUGAGGUCU	CUGGAACU	30930
2450	8580	CUAUUAGG G	UGGUUCUC	12556	GAGAACCA	GCCGAAAGGCGAGUGAGGUCU	CCAUUAG	30931
2453	8577	UAUGGGUG G	UUCUCAUC	12557	GAGAGAGG	GCCGAAAGGCGAGUGAGGUCU	CACCCUAU	30932
2462	8568	UUCUCAUC G	UGGUGCCA	12558	UGGCACCA	GCCGAAAGGCGAGUGAGGUCU	GAGGAGAA	30933
2465	8565	UCAUCGUG G	UGCCACGU	12559	ACGUGGCA	GCCGAAAGGCGAGUGAGGUCU	CACGAUGA	30934
2467	8563	AUCGUGGU G	CCACGUCG	12560	CGACGUGG	GCCGAAAGGCGAGUGAGGUCU	ACCACGAU	30935
2472	8558	GGUGCCAC G	UCGAACUG	12561	CAGUUCGA	GCCGAAAGGCGAGUGAGGUCU	GUGGCACC	30936
2480	8550	GUCGAACU G	UACUCACG	12562	CGUGAGUA	GCCGAAAGGCGAGUGAGGUCU	AGUUCGAC	30937
2488	8542	GUACUCAC G	CCUGAGUC	12563	GACUCAGG	GCCGAAAGGCGAGUGAGGUCU	GUGAGUAC	30938
2494	8536	ACGCCUGA G	UCGUUCA	12564	UUGAACGA	GCCGAAAGGCGAGUGAGGUCU	UCAGGCGU	30939
2497	8533	CCUGAGUC G	UUCAAUCC	12565	GGAUUGAA	GCCGAAAGGCGAGUGAGGUCU	GACUCAGG	30940
2507	8523	UCAAUCCU G	UUCUUGAU	12566	AUCAAGAA	GCCGAAAGGCGAGUGAGGUCU	AGGAUUGA	30941
2523	8507	UUUUAACU G	UGUCUGAG	12567	CUCAGACA	GCCGAAAGGCGAGUGAGGUCU	CAGUAAAA	30942
2525	8505	UUACUGGU G	UCUGAGUU	12568	AACUCAGA	GCCGAAAGGCGAGUGAGGUCU	ACCAUUA	30943
2531	8499	GUGUCUGA G	UUGAGCAG	12569	CUCUCUAG	GCCGAAAGGCGAGUGAGGUCU	UCAGACAC	30944
2536	8494	UGAGUUGA G	CAGGGGUU	12570	AACCCUAG	GCCGAAAGGCGAGUGAGGUCU	UCAACUCA	30945
2542	8488	GAGCAGGG G	UUUCCCA	12571	UGGAAAAA	GCCGAAAGGCGAGUGAGGUCU	CCUGCUC	30946
2553	8477	UUCCCACC G	CCUGGUU	12572	AACCAAGG	GCCGAAAGGCGAGUGAGGUCU	GGUGGAA	30947
2559	8471	CCGCCUGU G	UUCACAU	12573	AAGUGGAA	GCCGAAAGGCGAGUGAGGUCU	CAGGCGG	30948
2573	8457	CUUCCCAA G	UUUACAUC	12574	GAUGUAAA	GCCGAAAGGCGAGUGAGGUCU	UUGGGAAG	30949
2588	8442	UCUUCUCU G	UAUUGGGG	12575	CCCCAUA	GCCGAAAGGCGAGUGAGGUCU	GAGGAAGA	30950
2596	8434	GUUUGGG G	UCCUUC	12576	GGAAGGGA	GCCGAAAGGCGAGUGAGGUCU	CCCAUAC	30951
2607	8423	CCUUCAG G	UCCUUUU	12577	AAAAAGGA	GCCGAAAGGCGAGUGAGGUCU	CUGGAAGG	30952

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2632	8398	UCCUAGGA G CACCUGGC	12578	GCCAGGUG GCCGAAAGGCGAGUGAGGUCU	UCCUAGGA	30953
2639	8391	AGCACCUG G CUGGUCAU	12579	AUGACCAG GCCGAAAGGCGAGUGAGGUCU	CAGGUGCU	30954
2643	8387	CCUGGCUG G UCAUAUUC	12580	GAAUAUGA GCCGAAAGGCGAGUGAGGUCU	CAGCCAGG	30955
2659	8371	CACUGAAU G UACCACAU	12581	AUGUGGUA GCCGAAAGGCGAGUGAGGUCU	AUUCAGUG	30956
2669	8361	ACCACAUU G CCUGAAGC	12582	GUUCAGG GCCGAAAGGCGAGUGAGGUCU	AAUGUGGU	30957
2676	8354	UGCCUGAA G CUCGACUC	12583	GAGUCGAG GCCGAAAGGCGAGUGAGGUCU	UUCAGGCA	30958
2699	8331	UACAUCUC G UGCGUGGA	12584	UCCACGCA GCCGAAAGGCGAGUGAGGUCU	GAGAUGUA	30959
2701	8329	CAUCUCGU G CGUGGAAU	12585	AUUCACAG GCCGAAAGGCGAGUGAGGUCU	ACGAGAUG	30960
2703	8327	UCUCGUGC G UGGAUUC	12586	GAAUCCA GCCGAAAGGCGAGUGAGGUCU	GCACGAGA	30961
2713	8317	GGAAUUC G UGAGAGUG	12587	CACUCUCA GCCGAAAGGCGAGUGAGGUCU	GGAAUUC	30962
2719	8311	CCGUGAGA G UGGGUUUC	12588	GAAACCA GCCGAAAGGCGAGUGAGGUCU	UCUCACGG	30963
2723	8307	GAGAGUGG G UUCUGAC	12589	GUCAGAAA GCCGAAAGGCGAGUGAGGUCU	CCACUCUC	30964
2734	8296	UCUGACCA G UCCCCCCC	12590	GGGGGGGA GCCGAAAGGCGAGUGAGGUCU	UGGUCAGA	30965
2750	8280	CCAUACCG G CGUUGGAG	12591	CUCCAAAG GCCGAAAGGCGAGUGAGGUCU	CGGUUAUG	30966
2752	8278	AUACCGGC G UUGGAGCA	12592	UGCUCCAA GCCGAAAGGCGAGUGAGGUCU	GCCGUAU	30967
2758	8272	GCGUUGGA G CAGCUCCA	12593	UGGAGCUG GCCGAAAGGCGAGUGAGGUCU	UCCAACGC	30968
2761	8269	UUGGAGCA G CUCCAUCU	12594	AGAUGGAG GCCGAAAGGCGAGUGAGGUCU	UGCUCCAA	30969
2785	8245	GACUUCG G CAUGUAGG	12595	GUCACAG GCCGAAAGGCGAGUGAGGUCU	CGAAAGUC	30970
2789	8241	UUCGGCAU G UAGGGGCA	12596	UGCCCCUA GCCGAAAGGCGAGUGAGGUCU	AUGCCGAA	30971
2795	8235	AUGUAGGG G CAGAGCAC	12597	GUGCUCUG GCCGAAAGGCGAGUGAGGUCU	CCCUACAU	30972
2800	8230	GGGGCAGA G CACCUUCA	12598	UGAAGGUG GCCGAAAGGCGAGUGAGGUCU	UCUGCCCC	30973
2810	8220	ACCUUCAC G CAAAUUC	12599	GAAUUUUG GCCGAAAGGCGAGUGAGGUCU	GUGAAGGU	30974
2824	8206	UUCUUUG G CCCUCGGU	12600	ACCGAGGG GCCGAAAGGCGAGUGAGGUCU	CAAGGGAA	30975
2831	8199	GGCCUCG G UGCAGCCA	12601	UGGCUGCA GCCGAAAGGCGAGUGAGGUCU	CGAGGGCC	30976
2833	8197	CCUUCGGU G CAGCCAGU	12602	ACUGGCUG GCCGAAAGGCGAGUGAGGUCU	ACCGAGGG	30977
2836	8194	UCGGUGCA G CCAGUCCU	12603	AGGACUGG GCCGAAAGGCGAGUGAGGUCU	UGCACCGA	30978
2840	8190	UGCAGCCA G UCCUCAAC	12604	GUUGAGGA GCCGAAAGGCGAGUGAGGUCU	UGGCUGCA	30979
2868	8162	CCCGAUC G UCCUAUGC	12605	GCAUAGGA GCCGAAAGGCGAGUGAGGUCU	GAUUCGGG	30980
2875	8155	CGUCCUUAU G CUCUCAA	12606	UUGAAGAG GCCGAAAGGCGAGUGAGGUCU	AUAGGACG	30981
2889	8141	CAACCUCA G CACUUGAC	12607	CUAACAG GCCGAAAGGCGAGUGAGGUCU	UGAGGUUG	30982
2912	8118	UCUCCGAU G UCACAAAG	12608	CUUUGUGA GCCGAAAGGCGAGUGAGGUCU	AUCGGAGA	30983
2925	8105	AAAGGAGG G UGUACAA	12609	UUGUGACA GCCGAAAGGCGAGUGAGGUCU	CCUCCUUU	30984
2927	8103	AGGAGGGU G UCACAACA	12610	UGUUGUGA GCCGAAAGGCGAGUGAGGUCU	ACCCUCCU	30985
2944	8086	CUCAGAAG G UCUGUAGA	12611	UCUACAGA GCCGAAAGGCGAGUGAGGUCU	CUUCUGAG	30986
2948	8082	GAAGGUU G UAGAACAC	12612	GUGUUCUA GCCGAAAGGCGAGUGAGGUCU	AGACCUUC	30987
2976	8054	UCUUAUG G UGACAAUG	12613	CAUUGUCA GCCGAAAGGCGAGUGAGGUCU	CAUGAAGA	30988
2984	8046	GUGACAAU G UUCAUCC	12614	GGAUUGGA GCCGAAAGGCGAGUGAGGUCU	AUUGUCAC	30989
3001	8029	AUAACUUU G CACUAGUU	12615	AACUAGUG GCCGAAAGGCGAGUGAGGUCU	AAAGUUUU	30990
3007	8023	UUGCACUA G UUGGGGCU	12616	AGCCCCAA GCCGAAAGGCGAGUGAGGUCU	UAGUGCAA	30991
3013	8017	UAGUUGGG G CUCUUCAU	12617	AUGAAGAG GCCGAAAGGCGAGUGAGGUCU	CCCAACUA	30992
3022	8008	CUCUUCAU G UCCGGGAC	12618	GUCCCGGA GCCGAAAGGCGAGUGAGGUCU	AUGAAGAG	30993
3032	7998	CGGGGACC G CCCUUGU	12619	ACAAAGGA GCCGAAAGGCGAGUGAGGUCU	GGUCCCGG	30994
3039	7991	CGCCCUUU G UGUACCCU	12620	AGGGUACA GCCGAAAGGCGAGUGAGGUCU	AAAGGGCG	30995
3041	7989	CCCUUUGU G UACCCUCU	12621	AGAGGGUA GCCGAAAGGCGAGUGAGGUCU	ACAAAGGG	30996
3072	7958	UUUUUUGG G UUGCAUA	12622	UAUGGCAA GCCGAAAGGCGAGUGAGGUCU	CCAAAAAA	30997
3075	7955	UUUGGGUU G CCAUAUAG	12623	CUAUUAGG GCCGAAAGGCGAGUGAGGUCU	AACCCAAA	30998
3083	7947	GCCAUUAU G UAACACCA	12624	UGGUGUUA GCCGAAAGGCGAGUGAGGUCU	UAUAUGGC	30999
3095	7935	CACCAACC G CCUCUUC	12625	GGAAGAGG GCCGAAAGGCGAGUGAGGUCU	GGUUGGUG	31000
3113	7917	CAUCCAAG G UCAAUAC	12626	GUGAUUGA GCCGAAAGGCGAGUGAGGUCU	CUUGGAUG	31001
3133	7897	UCCGACCG G UUCGAGAA	12627	UUCUCGAA GCCGAAAGGCGAGUGAGGUCU	CGGUCGGA	31002
3148	7882	AAACCUCC G UUCGACCA	12628	UGGUCGAA GCCGAAAGGCGAGUGAGGUCU	GGAGGUUU	31003
3157	7873	UUCGACCA G CCAUCUCA	12629	UGAGAUGG GCCGAAAGGCGAGUGAGGUCU	UGGUCGAA	31004
3166	7864	CCAUCUCA G UUUUGCUG	12630	CAGCAAAA GCCGAAAGGCGAGUGAGGUCU	UGAGAUGG	31005
3171	7859	UCAGUUUU G CUGUGCCC	12631	GGGCACAG GCCGAAAGGCGAGUGAGGUCU	AAAAACUA	31006
3174	7856	GUUUUGCU G UGCCCCUA	12632	UAGGGGCA GCCGAAAGGCGAGUGAGGUCU	AGCAAAAC	31007
3176	7854	UUUGCUGU G CCCUAGA	12633	UCUAGGGG GCCGAAAGGCGAGUGAGGUCU	ACAGCAAA	31008
3193	7837	GACUGGAU G CCCUCCAG	12634	CUGGAGGG GCCGAAAGGCGAGUGAGGUCU	AUCCAGUC	31009
3201	7829	GCCCUCCA G UGACAUUG	12635	CAAUUGCA GCCGAAAGGCGAGUGAGGUCU	UGGAGGGC	31010
3209	7821	GUGACAUU G CCUUCUUU	12636	AAAGAAGG GCCGAAAGGCGAGUGAGGUCU	AAUGUCAC	31011
3222	7808	CUUUCUUG G CGUUGUUU	12637	AAACACAG GCCGAAAGGCGAGUGAGGUCU	CAGGAAAG	31012
3224	7806	UUCUGGCG G UGUUUUGC	12638	GCAAAACA GCCGAAAGGCGAGUGAGGUCU	GCCAGGAA	31013
3226	7804	CCUGGCGU G UUUUGCCG	12639	CGGCAAAA GCCGAAAGGCGAGUGAGGUCU	ACGCCAGG	31014

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3231	7799	CGUGUUU G CCGCUGAG	12640	CUCAGCGG GCCGAAAGGCGAGUGAGGUCU	AAAACACG	31015
3234	7796	GUUUUGCC G CUGAGCGA	12641	UCGCUCAG GCCGAAAGGCGAGUGAGGUCU	GGCAAAAC	31016
3239	7791	GCCGCUGA G CGAUCGAC	12642	GUCGAUCG GCCGAAAGGCGAGUGAGGUCU	UCAGCGGC	31017
3258	7772	CGAUGAUG G CCUCUUUG	12643	CAAAGAGG GCCGAAAGGCGAGUGAGGUCU	CAUCAUCG	31018
3266	7764	GCCUCUUU G CGGUACCU	12644	AGGUACCG GCCGAAAGGCGAGUGAGGUCU	AAAGAGGC	31019
3269	7761	UCUUUGCG G UACCUAGU	12645	ACUAGGUA GCCGAAAGGCGAGUGAGGUCU	CGCAAGA	31020
3276	7754	GGUACCUA G UGAACUCU	12646	AGAGUUA GCCGAAAGGCGAGUGAGGUCU	UAGGUACC	31021
3291	7739	CUUCUUU G UCAUCUGG	12647	CCAGAUGA GCCGAAAGGCGAGUGAGGUCU	AAAAGAAG	31022
3299	7731	GUCAUCUG G UUGAGUCU	12648	AGACUCAA GCCGAAAGGCGAGUGAGGUCU	CAGAUGAC	31023
3304	7726	CUGGUUGA G UCUUUCUU	12649	AAGAAAGA GCCGAAAGGCGAGUGAGGUCU	UCAACCAG	31024
3330	7700	CUCCCAAG G UGCGUCCU	12650	AGGACGCA GCCGAAAGGCGAGUGAGGUCU	CUUGGGAG	31025
3332	7698	CCCAAGGU G CGUCCUUU	12651	AAAGGACG GCCGAAAGGCGAGUGAGGUCU	ACCUUGGG	31026
3334	7696	CAAGGUGC G UCCUUUUG	12652	CAAAAGGA GCCGAAAGGCGAGUGAGGUCU	GCACCUG	31027
3342	7688	GUCCUUU G CCCACCU	12653	AGGUGGGG GCCGAAAGGCGAGUGAGGUCU	AAAAGGAC	31028
3350	7672	UCUUUUUA G UCCUGGUU	12654	AACCAGGA GCCGAAAGGCGAGUGAGGUCU	UAAAAGA	31029
3364	7666	UAGUCCUG G UUUUCCA	12655	UGGAAAAA GCCGAAAGGCGAGUGAGGUCU	CAGGACUA	31030
3374	7656	UUUUCUAG G UUCUUUAU	12656	AUUAAGAA GCCGAAAGGCGAGUGAGGUCU	AUGGAAA	31031
3385	7645	CUUUUAUG G UGUCCAUG	12657	CAUGGACA GCCGAAAGGCGAGUGAGGUCU	UCAUAAAG	31032
3387	7643	UUUAUGAG G UCCAUGUU	12658	AACAUGGA GCCGAAAGGCGAGUGAGGUCU	ACUCAUAA	31033
3393	7637	GUUUCUAG G UUAUGGAU	12659	AUCUUAAG GCCGAAAGGCGAGUGAGGUCU	AUGGACAC	31034
3424	7606	ACCCCCAC G CAUGAUGU	12660	ACAUCUAG GCCGAAAGGCGAGUGAGGUCU	UGGGGGGU	31035
3431	7599	CGCAUGAU G UGCGAGAG	12661	CUCUGCCA GCCGAAAGGCGAGUGAGGUCU	AUCAUGCG	31036
3434	7596	AUGAUGUG G CAGAGUCC	12662	GGACUCUG GCCGAAAGGCGAGUGAGGUCU	CACAUCAU	31037
3439	7591	GUGGCAGA G UCCGAUGG	12663	CCAUCGGA GCCGAAAGGCGAGUGAGGUCU	UCUGCCAC	31038
3447	7583	GUCCGAUG G CAGUUGUU	12664	AACAACUG GCCGAAAGGCGAGUGAGGUCU	CAUCGGAC	31039
3450	7580	CGAUGGCA G UUGUUGCG	12665	CGCAACAA GCCGAAAGGCGAGUGAGGUCU	UGCCAUCG	31040
3453	7577	UGGCAUGU G UUGCGUUC	12666	GAACGCAA GCCGAAAGGCGAGUGAGGUCU	AACUGCCA	31041
3456	7574	CAGUUGUU G CGUCCAA	12667	UUGGAACG GCCGAAAGGCGAGUGAGGUCU	AACAACUG	31042
3458	7572	GUUGUUGC G UUCCAAAC	12668	GUUUGGAA GCCGAAAGGCGAGUGAGGUCU	GCAACAAC	31043
3470	7560	CAACACAG G CUUGCUCC	12669	GGAGCAAG GCCGAAAGGCGAGUGAGGUCU	UCUGUUUG	31044
3474	7556	CAGAGCUU G CUCCAUCG	12670	GAUUGGAG GCCGAAAGGCGAGUGAGGUCU	AAGCUCUG	31045
3490	7540	CUCCCAA G CGUCACC	12671	CGGUGACG GCCGAAAGGCGAGUGAGGUCU	UUUGGGAG	31046
3492	7538	CCCAAAGC G UCACCGCU	12672	AGCGGUGA GCCGAAAGGCGAGUGAGGUCU	GCUUUGGG	31047
3498	7532	GCGUACCC G CUGCGGCC	12673	GGCCGCGG GCCGAAAGGCGAGUGAGGUCU	GGUGACGC	31048
3501	7529	UCACCGCU G CGGCCGUG	12674	CACGGCCG GCCGAAAGGCGAGUGAGGUCU	AGCGGUGA	31049
3504	7526	CCGUGCGG G CGGUGAUC	12675	GAUCACGG GCCGAAAGGCGAGUGAGGUCU	CGCAGCGG	31050
3507	7523	CGCGGCC G UGAUCAA	12676	UUUGAUCA GCCGAAAGGCGAGUGAGGUCU	GGCCGCGAG	31051
3522	7508	AAAUUCCG G CUUCUCGU	12677	ACGAGAAG GCCGAAAGGCGAGUGAGGUCU	CGGAUUUU	31052
3529	7501	GGCUUCUC G UACUGUCU	12678	AGACAGUA GCCGAAAGGCGAGUGAGGUCU	GAGAAGCC	31053
3534	7496	CUCGUACU G UCUCACA	12679	UGUGAAGA GCCGAAAGGCGAGUGAGGUCU	AGUACGAG	31054
3548	7482	ACAGACGG G UUCACUAC	12680	GUAGUGAA GCCGAAAGGCGAGUGAGGUCU	CCGUCUGU	31055
3561	7469	CUACUACU G CAGCUAGA	12681	UCUAGGUC GCCGAAAGGCGAGUGAGGUCU	AGUAGUAG	31056
3564	7456	CUACUGCA G CUAGAGAC	12682	GUCUCUAG GCCGAAAGGCGAGUGAGGUCU	UGCAGUAG	31057
3583	7447	CAAGAUA G CAUGAUCU	12683	AGAUAUUG GCCGAAAGGCGAGUGAGGUCU	UGAUCUUG	31058
3592	7438	CAUGAUCU G UCCAACUU	12684	AAGUUGGA GCCGAAAGGCGAGUGAGGUCU	AGAUAUUG	31059
3607	7423	UUUCUUCU G CAUGAUGG	12685	CCAUAUUG GCCGAAAGGCGAGUGAGGUCU	AGAAGAAA	31060
3616	7414	CAUGAUGG G UGUGGUGC	12686	GCACCACA GCCGAAAGGCGAGUGAGGUCU	CCAUAUUG	31061
3618	7412	UGAUGGGU G UGUGCGC	12687	GCGCACCA GCCGAAAGGCGAGUGAGGUCU	ACCCAUA	31062
3621	7409	UGGGUGUG G UGCGUCU	12688	AGAGCGCA GCCGAAAGGCGAGUGAGGUCU	CACACCCA	31063
3623	7407	GGUGUGGU G CGUCUUA	12689	UUAGAGCG GCCGAAAGGCGAGUGAGGUCU	ACCACACC	31064
3625	7405	UGUGGUGC G CUCUAAU	12690	AAUUAAGG GCCGAAAGGCGAGUGAGGUCU	GCACCACA	31065
3641	7389	UCUGGGAC G UCCGUGGC	12691	GCCACGGA GCCGAAAGGCGAGUGAGGUCU	GUCCGAGA	31066
3645	7385	GGACGUCC G UGCGACG	12692	CGUGGCCA GCCGAAAGGCGAGUGAGGUCU	GGACGUCC	31067
3648	7382	CGUCCGUG G CCACGAUG	12693	CAUCGUGG GCCGAAAGGCGAGUGAGGUCU	CACGACG	31068
3656	7374	GCCACGAU G CCAUCCAC	12694	GUGGAUGG GCCGAAAGGCGAGUGAGGUCU	AUCGUGGC	31069
3669	7361	CCACUACA G CGUUCUUC	12695	GAAGAACG GCCGAAAGGCGAGUGAGGUCU	UGUAGUGG	31070
3671	7359	ACUACAGC G UUCUUAU	12696	AUGAAGAA GCCGAAAGGCGAGUGAGGUCU	GCUGUAGU	31071
3687	7343	UGAUUCCG G CCGCUGUC	12697	GACAGCGG GCCGAAAGGCGAGUGAGGUCU	CGGAUUA	31072
3690	7340	UUCGCGCC G CUGUCCGC	12698	GCGGACAG GCCGAAAGGCGAGUGAGGUCU	GGCCGGA	31073
3693	7337	CGGCCGCU G UCCGCCGC	12699	CGGCGCGG GCCGAAAGGCGAGUGAGGUCU	AGCGCGCC	31074
3697	7333	CGCUGUCC G CCGCUGGG	12700	CCGACGCG GCCGAAAGGCGAGUGAGGUCU	GGACAGCG	31075
3700	7330	UGUCCGCC G CUGGGCUG	12701	CAGCCCGG GCCGAAAGGCGAGUGAGGUCU	GGCGACA	31076

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3705	7325	GCCGCUGG G CUGAGCGC	12702	GCGCUCAG GCCGAAAGGCGAGUGAGGUCU	CCAGCGGC	31077
3710	7320	UGGGCTUGA G CGCAUUGC	12703	GCAAUUGG GCCGAAAGGCGAGUGAGGUCU	UCAGCCCA	31078
3712	7318	GGCUGAGC G CAUUGCCU	12704	AGGCAUUG GCCGAAAGGCGAGUGAGGUCU	GTUCAGCC	31079
3717	7313	AGCGCAUU G CCUCAGCU	12705	AGCUGAGG GCCGAAAGGCGAGUGAGGUCU	AAUGCGCU	31080
3723	7307	UUGCCUCA G CUTUGCCAA	12706	UUGGCAAG GCCGAAAGGCGAGUGAGGUCU	UGAGGCCAA	31081
3727	7303	CUCAGCUU G CCAACCGG	12707	CCGCUUGG GCCGAAAGGCGAGUGAGGUCU	AAGCUGAG	31082
3743	7287	GGAACCAU G UAGGCAUA	12708	UAUGCCUA GCCGAAAGGCGAGUGAGGUCU	AUGGUUCC	31083
3747	7283	CCAUGUAG G CAUAGUGG	12709	CCACUADG GCCGAAAGGCGAGUGAGGUCU	CUACAUGG	31084
3752	7278	UAGGCAUA G UGGCAAAA	12710	UUUUGCCA GCCGAAAGGCGAGUGAGGUCU	UAUGCCUA	31085
3755	7275	GCAUAGUG G CAAAAAAG	12711	CUUUUUUG GCCGAAAGGCGAGUGAGGUCU	CACUAUGC	31086
3766	7264	AAAAAGGA G UGUUGCCG	12712	CGGCAACA GCCGAAAGGCGAGUGAGGUCU	UCCUUUUU	31087
3768	7262	AAAGGAGU G UUGCCGCU	12713	AGCGGCAA GCCGAAAGGCGAGUGAGGUCU	ACUCCUUU	31088
3771	7259	GGAGUGUU G CCGCUGUU	12714	AACAGCGG GCCGAAAGGCGAGUGAGGUCU	AACACUCC	31089
3774	7256	GUGUUGCC G CUGUUAAC	12715	GGUAAACG GCCGAAAGGCGAGUGAGGUCU	GGCAACAC	31090
3777	7253	UUGCCGCU G UUACCGUA	12716	UACGGUAA GCCGAAAGGCGAGUGAGGUCU	AGCGGCAA	31091
3783	7247	CUGUUAAC G UAACGGUG	12717	CACCGUUA GCCGAAAGGCGAGUGAGGUCU	GGUAAACAG	31092
3789	7241	CCGUAAAC G UGAGGGUG	12718	CACCCUCA GCCGAAAGGCGAGUGAGGUCU	CGUUAACG	31093
3795	7235	CGGUGAGG G UGACUUGU	12719	ACAAGUCA GCCGAAAGGCGAGUGAGGUCU	CCUACCCG	31094
3802	7228	GGUGACUU G UCCCCAGC	12720	GCUGGGGA GCCGAAAGGCGAGUGAGGUCU	AAGUCACC	31095
3809	7221	UGUCCCCA G CAUCCGGC	12721	GCCGGAUG GCCGAAAGGCGAGUGAGGUCU	UGGGGACA	31096
3816	7214	AGCAUCCG G CUGCUAGC	12722	GCUAAGAG GCCGAAAGGCGAGUGAGGUCU	CGGAUGCU	31097
3819	7211	AUCCGCGU G CUAGCAGG	12723	CCUGCUGG GCCGAAAGGCGAGUGAGGUCU	AGCCGGAU	31098
3823	7207	GGCUGCUA G CAGGAGAG	12724	CUCUCCTG GCCGAAAGGCGAGUGAGGUCU	UAGCAGCC	31099
3831	7199	GCAGGAGA G CCGACACU	12725	AGUGUCGG GCCGAAAGGCGAGUGAGGUCU	UCUCCUGC	31100
3860	7170	AAGGGGAA G CCUCGCGC	12726	GCGCGAGG GCCGAAAGGCGAGUGAGGUCU	UUCCCCUU	31101
3865	7165	GAAGCCUC G CGCGAGUG	12727	CACUCGCG GCCGAAAGGCGAGUGAGGUCU	GAGGCUUC	31102
3867	7163	AGCCUCGC G CGAGUGUG	12728	CACACUCG GCCGAAAGGCGAGUGAGGUCU	GCGAGGCU	31103
3871	7159	UCGCGCGA G UGUGAAUA	12729	UAUUCACA GCCGAAAGGCGAGUGAGGUCU	UCGCGCGA	31104
3873	7157	GCGCGAGU G UGAAUAGU	12730	ACUAUUCA GCCGAAAGGCGAGUGAGGUCU	ACUCGCGC	31105
3880	7150	UGUGAAUA G UGCACUUG	12731	CAAGUGCA GCCGAAAGGCGAGUGAGGUCU	UAUUCACA	31106
3882	7148	UGAAUAGU G CACUUGCC	12732	GGCAAGUG GCCGAAAGGCGAGUGAGGUCU	ACUAUUCA	31107
3888	7142	GUGCACUU G CCUGAACG	12733	CGUUCAGG GCCGAAAGGCGAGUGAGGUCU	AAGUGCAC	31108
3896	7134	GCCUGAAC G UUUUAUGA	12734	UCAUAUAA GCCGAAAGGCGAGUGAGGUCU	GUUCAGGC	31109
3906	7124	UUUAUUGA G UCAUAUGA	12735	CUCAUUGA GCCGAAAGGCGAGUGAGGUCU	CUCAUUA	31110
3915	7115	UCAUAUGA G UGUUGAUG	12736	CAUCAACA GCCGAAAGGCGAGUGAGGUCU	CUCAUUGA	31111
3917	7113	AAUGAGGU G UGAUGUA	12737	UACAUCAA GCCGAAAGGCGAGUGAGGUCU	ACCUCAU	31112
3923	7107	GUGUUGAU G UAAUCUGA	12738	UCAGAUUA GCCGAAAGGCGAGUGAGGUCU	AUCAACAC	31113
3933	7097	AAUCUGAC G UGAUCAA	12739	UUUGAUCA GCCGAAAGGCGAGUGAGGUCU	GUCAGAUU	31114
3943	7087	GAUCAAUA G CUUAGCA	12740	UUCUAAAG GCCGAAAGGCGAGUGAGGUCU	AUUUGAUC	31115
3949	7081	AUGCUUUA G CAGUGGAG	12741	CUCACUUG GCCGAAAGGCGAGUGAGGUCU	UAAAGCAU	31116
3952	7078	CUUUAAGC G UGGAGUGA	12742	UCACUCCA GCCGAAAGGCGAGUGAGGUCU	UGCUAAG	31117
3957	7073	GCAGUGGA G UGAGGACC	12743	GUUCCUCA GCCGAAAGGCGAGUGAGGUCU	UCCACUGC	31118
3966	7064	UGAGGACC G CUGUUGUC	12744	GACAAACG GCCGAAAGGCGAGUGAGGUCU	GUUCCUCA	31119
3969	7061	GGACCGCU G UUGUCACA	12745	UGUGACAA GCCGAAAGGCGAGUGAGGUCU	AGCGGUCC	31120
3972	7058	CCGCGUUU G UCACAGCG	12746	CGCUGUGA GCCGAAAGGCGAGUGAGGUCU	AACAGCGG	31121
3978	7052	UUGUCACA G CGUACAGU	12747	ACUGUACG GCCGAAAGGCGAGUGAGGUCU	UGUGACAA	31122
3980	7050	GUCACAGC G UACAGUGA	12748	UCACUGUA GCCGAAAGGCGAGUGAGGUCU	GCUGUGAC	31123
3985	7045	AGCGUACA G UGACCAGG	12749	CCUGGUCA GCCGAAAGGCGAGUGAGGUCU	UGUACGCU	31124
3993	7037	GUGACCAG G CUGUUGCC	12750	GGCAACAG GCCGAAAGGCGAGUGAGGUCU	CUGGUCAC	31125
3996	7034	ACCAGGCU G UUGCCGGC	12751	GCCGCGCA GCCGAAAGGCGAGUGAGGUCU	AGCCUGGU	31126
3999	7031	AGGCUUUU G CCGGCCUC	12752	GAGGCGGG GCCGAAAGGCGAGUGAGGUCU	AACAGCCU	31127
4003	7027	UGUUGCCG G CCUCAAGU	12753	ACUUGAGG GCCGAAAGGCGAGUGAGGUCU	CGCAACA	31128
4010	7020	GGCCUCA G UCCAAAAG	12754	CUUUUGGA GCCGAAAGGCGAGUGAGGUCU	UUGAGGCC	31129
4031	6999	UCUCCAU G CUGAAAUU	12755	AAUUUCAG GCCGAAAGGCGAGUGAGGUCU	AUGGGAGA	31130
4060	6970	AAUUCUUU G CCCAAACA	12756	UGUUUGGG GCCGAAAGGCGAGUGAGGUCU	AAAGAAAU	31131
4073	6957	AACAAACU G CUUAUGUC	12757	GACAUUAG GCCGAAAGGCGAGUGAGGUCU	AGUUUGUU	31132
4079	6951	CUGCUUUA G UCACUCUU	12758	AAAGUUGA GCCGAAAGGCGAGUGAGGUCU	AUAAGCAG	31133
4089	6941	CACUCUUG G UCUAUUCU	12759	AGAUAAAG GCCGAAAGGCGAGUGAGGUCU	CAAGAGUG	31134
4099	6931	CUUAUCUA G CCAACCCA	12760	UGGUUUGG GCCGAAAGGCGAGUGAGGUCU	UAGAUUAG	31135
4112	6918	CCCADCUC G UUGGCUGC	12761	GCAGCCAA GCCGAAAGGCGAGUGAGGUCU	GAGAUUGG	31136
4116	6914	UCUCGUUG G CUGCCACU	12762	AGUGGCAG GCCGAAAGGCGAGUGAGGUCU	CAACGAGA	31137
4119	6911	CGUUGGCU G CCACUGCG	12763	CGCAGUGG GCCGAAAGGCGAGUGAGGUCU	AGCCAACG	31138

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4125	6905	CUGCCACU G CGCUCACA	12764	UGUGAGCG GCCGAAAGGCGAGUGAGGUCU	AGUGGCAG	31139
4127	6903	GCCACUGC G CUCACAAG	12765	CUUGUGAG GCCGAAAGGCGAGUGAGGUCU	GCAUGGC	31140
4137	6893	UCACAAGG G UCAUGACA	12766	UGUCAUGA GCCGAAAGGCGAGUGAGGUCU	CCUUGUGA	31141
4161	6869	GGAAACAG G CUAGCUGG	12767	CCAGCUGAG GCCGAAAGGCGAGUGAGGUCU	CGUGUUC	31142
4165	6865	CACGGCUA G CUGGUUGU	12768	ACAACAG GCCGAAAGGCGAGUGAGGUCU	UAGCCGUG	31143
4169	6861	GCUAGCUG G UUGUCUGU	12769	ACAGACAA GCCGAAAGGCGAGUGAGGUCU	CAGCUAGC	31144
4172	6858	AGCUGGUU G UCUGUCUG	12770	CAGACAGA GCCGAAAGGCGAGUGAGGUCU	AACCAGCU	31145
4176	6854	GGUUGUCU G UCUGCGAA	12771	UUCGCAGA GCCGAAAGGCGAGUGAGGUCU	AGACAACC	31146
4180	6850	GUCUGUCU G CGAACGUU	12772	AACGUUCG GCCGAAAGGCGAGUGAGGUCU	AGACAGAC	31147
4186	6844	CUGCGAAC G UUGCUUCU	12773	AGAAGCAA GCCGAAAGGCGAGUGAGGUCU	GUUCGCAG	31148
4189	6841	CGAACGUU G CUUCUCUG	12774	UCCAGGAG GCCGAAAGGCGAGUGAGGUCU	AACGUUCG	31149
4198	6832	CUUCUCUG G CUCAGGAA	12775	UUCUCUAG GCCGAAAGGCGAGUGAGGUCU	CAGAGAAG	31150
4210	6820	AGGAAUUA G CACAUAUA	12776	UGAUUGUG GCCGAAAGGCGAGUGAGGUCU	UAAUUCU	31151
4234	6796	AAGGGAGA G CAGCAACA	12777	UGUUGCUG GCCGAAAGGCGAGUGAGGUCU	UCUCCUU	31152
4237	6793	GGAGAGCA G CAACAUUC	12778	GAAUGUUG GCCGAAAGGCGAGUGAGGUCU	UGCUCUCC	31153
4248	6782	ACAUUCUG G CGAUUCU	12779	GAAGAUCG GCCGAAAGGCGAGUGAGGUCU	CGGAAUGU	31154
4257	6773	CGAUUCUG G UUCUGGA	12780	CGGAAGGG GCCGAAAGGCGAGUGAGGUCU	GAAGUUCG	31155
4272	6758	GAACUUA G CCAUCCAA	12781	UUGGAUUG GCCGAAAGGCGAGUGAGGUCU	UGAAGUUC	31156
4290	6740	AGAAAAAG G UCGGACU	12782	AGUCGCGA GCCGAAAGGCGAGUGAGGUCU	CUUUUUCU	31157
4293	6737	AAAAGGUC G CGACUCCC	12783	GGGAGUCG GCCGAAAGGCGAGUGAGGUCU	GACCUUUU	31158
4308	6722	CCAAGACA G CGCUCUCC	12784	GGGAGGCG GCCGAAAGGCGAGUGAGGUCU	UGUCUUGG	31159
4310	6720	AAGACAGC G CCUCCCAA	12785	UUGGGAGG GCCGAAAGGCGAGUGAGGUCU	GCUGUCUU	31160
4334	6696	UUUCCAAU G CCCUCCG	12786	CGGAAGGG GCCGAAAGGCGAGUGAGGUCU	AUUGGAAA	31161
4342	6688	GCCUUCU G CUGCAUGA	12787	UCAUGCAG GCCGAAAGGCGAGUGAGGUCU	GGAGGGGC	31162
4345	6685	CUUCGCU G CAUGAGGA	12788	UCCUCAUG GCCGAAAGGCGAGUGAGGUCU	AGCGGAAG	31163
4371	6659	CUCCCAUG G UCAUCACA	12789	UGUGAUGA GCCGAAAGGCGAGUGAGGUCU	CAUGGGAG	31164
4389	6641	UCAUAAG G CAUCAAG	12790	CUUGAUUG GCCGAAAGGCGAGUGAGGUCU	CUUAUUGA	31165
4398	6632	CAUAUAG G CAUUGUC	12791	GACAAUUG GCCGAAAGGCGAGUGAGGUCU	CUUGAUUG	31166
4404	6626	AGGCAAUU G UCUGAAGA	12792	UCUUCAGA GCCGAAAGGCGAGUGAGGUCU	AAUUGCCU	31167
4413	6617	UCUGAAGA G CAUCUGGC	12793	GCCAGAUG GCCGAAAGGCGAGUGAGGUCU	UCUUCAGA	31168
4420	6610	AGCAUCUG G CAGUCCU	12794	AGGAACUG GCCGAAAGGCGAGUGAGGUCU	CAGAUGCU	31169
4423	6607	AUCUGGCA G UUCUCCA	12795	UGGAGGAA GCCGAAAGGCGAGUGAGGUCU	UGCCAGAU	31170
4434	6596	CCUCCAGG G CCAUUCUG	12796	CAGAAUGG GCCGAAAGGCGAGUGAGGUCU	CCUGGAGG	31171
4442	6588	GCCAUUCU G UGAGCUCU	12797	AGAGCUCA GCCGAAAGGCGAGUGAGGUCU	AGAAUGGC	31172
4446	6584	UUCUGUGA G CUCUCCU	12798	AGGAAGAG GCCGAAAGGCGAGUGAGGUCU	UCACAGAA	31173
4464	6566	CUUCUCU G CAGUGGC	12799	GGCCACUG GCCGAAAGGCGAGUGAGGUCU	AGAGAAAG	31174
4467	6563	UCUCUGCA G UGGCCACA	12800	UGUGGCCA GCCGAAAGGCGAGUGAGGUCU	UGCAGAGA	31175
4470	6560	CUGCAGUG G CCACAACG	12801	CGUUGUGG GCCGAAAGGCGAGUGAGGUCU	CACUGCAG	31176
4478	6552	GCCACAAC G UACAUGGU	12802	ACCAUGUA GCCGAAAGGCGAGUGAGGUCU	GUUGUGGC	31177
4485	6545	CGUACAUG G UGUCAAGU	12803	ACUUGACA GCCGAAAGGCGAGUGAGGUCU	CAUGUACG	31178
4487	6543	UACAUGGU G UCAAGUGC	12804	GACUUGA GCCGAAAGGCGAGUGAGGUCU	ACCAUGUA	31179
4492	6538	GGUGUCAA G UGCUUCC	12805	GGGAAGCA GCCGAAAGGCGAGUGAGGUCU	UUGACACC	31180
4494	6536	UGUCAAGU G CUUCCAU	12806	AUGGGAAG GCCGAAAGGCGAGUGAGGUCU	ACUUGACA	31181
4503	6527	CUUCCCAU G UCUCUCC	12807	GGGGAAGA GCCGAAAGGCGAGUGAGGUCU	AUGGGAAG	31182
4517	6513	CCCAUGAA G UGCUACG	12808	CCUGAGCA GCCGAAAGGCGAGUGAGGUCU	UUCAUUGG	31183
4519	6511	CAUGAAGU G CUCAGGCA	12809	UGCCUGAG GCCGAAAGGCGAGUGAGGUCU	ACUUCAGU	31184
4525	6505	GUGCUCAG G CAUCUUUC	12810	GAAAGAUG GCCGAAAGGCGAGUGAGGUCU	CUGAGCAC	31185
4549	6481	CUCAUUGA G CCAUUCU	12811	AGAUAGGG GCCGAAAGGCGAGUGAGGUCU	UCAUUGAG	31186
4564	6466	CUGAGAAC G UUUUCCG	12812	CGGGAAAA GCCGAAAGGCGAGUGAGGUCU	GUUCUCAG	31187
4575	6455	UUCUCCAG G CGAAGUCC	12813	GGACUUCG GCCGAAAGGCGAGUGAGGUCU	CUCGGGAA	31188
4580	6450	GAGGCGAA G UCCUUGAA	12814	UUCAAGGA GCCGAAAGGCGAGUGAGGUCU	UUCGCCUC	31189
4590	6440	CCUUGAAC G CCUUUAGU	12815	ACUAAAGG GCCGAAAGGCGAGUGAGGUCU	GUUCAAGG	31190
4597	6433	CGCCUUUA G UGCCUGGU	12816	ACCAGGCA GCCGAAAGGCGAGUGAGGUCU	UAAAGGCG	31191
4599	6431	CCUUUAGU G CCUGGUGA	12817	UCACCAGG GCCGAAAGGCGAGUGAGGUCU	ACUAAAGG	31192
4604	6426	AGUGCCUG G UGAUCCGA	12818	UCGGAUCA GCCGAAAGGCGAGUGAGGUCU	CAGGCACU	31193
4613	6417	UGAUCCGA G UACACCCU	12819	AGGGUGUA GCCGAAAGGCGAGUGAGGUCU	UCGGAUCA	31194
4623	6407	ACACCCUG G CGUCAUUC	12820	GAUUGAGG GCCGAAAGGCGAGUGAGGUCU	CAGGGUGU	31195
4625	6405	ACCCUGGC G UCAAUCCA	12821	UGGAUUGA GCCGAAAGGCGAGUGAGGUCU	GCCAGGGU	31196
4634	6396	UCAAUCCA G CGCGCCU	12822	AGGCCCGG GCCGAAAGGCGAGUGAGGUCU	UGGAUUGA	31197
4636	6394	AAUCCAGC G CGGCCUCA	12823	UGAGGCCG GCCGAAAGGCGAGUGAGGUCU	GCUGGAUU	31198
4639	6391	CCAGCGCG G CCUCAGAA	12824	UUCUGAGG GCCGAAAGGCGAGUGAGGUCU	CGCGCUGG	31199
4663	6367	UUCACCAA G CUUCGUGA	12825	UCACGAAG GCCGAAAGGCGAGUGAGGUCU	UUGGUGAA	31200

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4668	6362	CAAGCUUC G UGAUGACU	12826	AGUCAUCA GCCGAAAGGCGAGUGAGGUCU	GAAGCUUG	31201
4685	6345	UCCACUUC G UGUUGUC	12827	GACAAACA GCCGAAAGGCGAGUGAGGUCU	GAAUGUGGA	31202
4688	6342	ACUUCGUU G UUGUCUUC	12828	GAAQACAA GCCGAAAGGCGAGUGAGGUCU	AACGAAGU	31203
4691	6339	UCGUUGUU G UCUCUAA	12829	UUAGAAGA GCCGAAAGGCGAGUGAGGUCU	AACAACGA	31204
4704	6326	CUAAAAU G UGUUGUC	12830	GACAAACA GCCGAAAGGCGAGUGAGGUCU	AAUUUUG	31205
4706	6324	AAAAUUGU G UUGUCCU	12831	AGGACAAA GCCGAAAGGCGAGUGAGGUCU	ACAAUUUU	31206
4710	6320	UUGUGUUU G UCCUAGGA	12832	UCCUAGGA GCCGAAAGGCGAGUGAGGUCU	AAACACAA	31207
4727	6303	CCAUCAAA G CACCACCU	12833	AGGUGUGU GCCGAAAGGCGAGUGAGGUCU	UUUGAUGG	31208
4739	6291	CACCUCCG G UCGUGGUA	12834	UACCACGA GCCGAAAGGCGAGUGAGGUCU	CGGAGGUG	31209
4742	6288	CUCCGGUC G UGGUAUGA	12835	UCAUACCA GCCGAAAGGCGAGUGAGGUCU	GACCGGAG	31210
4745	6285	CGGUCGUG G UAUGACAC	12836	GUGUCAUA GCCGAAAGGCGAGUGAGGUCU	CACGACCG	31211
4758	6272	ACACUCCA G CCGUGCA	12837	UGCAGCGG GCCGAAAGGCGAGUGAGGUCU	UGGAGUGU	31212
4761	6269	CUCCAGCC G CUGCAACC	12838	GGUUGCAG GCCGAAAGGCGAGUGAGGUCU	GGCUGGAG	31213
4764	6266	CAGCCGCU G CAACCUUG	12839	CAAGGUUG GCCGAAAGGCGAGUGAGGUCU	AGCGGCUG	31214
4772	6258	GCAACCUU G UAAGCCAG	12840	CUGGCCTA GCCGAAAGGCGAGUGAGGUCU	AAGGUUGC	31215
4776	6254	CCUUGUAA G CCAGCCAA	12841	UUGGCUUG GCCGAAAGGCGAGUGAGGUCU	UUACAAGG	31216
4780	6250	GUAAAGCA G CCAACUG	12842	CAGUUUGG GCCGAAAGGCGAGUGAGGUCU	UGGCUUAC	31217
4789	6241	CCAAACUG G CAGAUCUG	12843	CAGAUCUG GCCGAAAGGCGAGUGAGGUCU	CAGUUUGG	31218
4797	6233	GCAGAUCU G CAGUCCUC	12844	GAGGACUG GCCGAAAGGCGAGUGAGGUCU	AGAUCUGC	31219
4800	6230	GAUCUGCA G UCCUCAAC	12845	GUUGAGGA GCCGAAAGGCGAGUGAGGUCU	UGCAGAUU	31220
4810	6220	CCUCAACA G UCCAGAA	12846	UUCUGGAA GCCGAAAGGCGAGUGAGGUCU	UGUUGAGG	31221
4820	6210	UCCAGAAA G UUUUUUCU	12847	AGAAAAA GCCGAAAGGCGAGUGAGGUCU	UUUCUGGA	31222
4843	6187	UCCUCUGA G CCGUAUU	12848	AAUACCGG GCCGAAAGGCGAGUGAGGUCU	UCAGAGGA	31223
4847	6183	CUGAGCCG G UAUCCCC	12849	GGGGAUA GCCGAAAGGCGAGUGAGGUCU	CGGCUCAG	31224
4863	6167	CAUCCAUG G UAUAUACC	12850	GGUAUAUA GCCGAAAGGCGAGUGAGGUCU	CAUGGAUG	31225
4879	6151	CUUCUCAC G CUCUGGUU	12851	AACCAGAG GCCGAAAGGCGAGUGAGGUCU	GUGAGAAG	31226
4885	6145	ACGCUCUG G UUGGUAGA	12852	UCUACCAA GCCGAAAGGCGAGUGAGGUCU	CAGAGCGU	31227
4889	6141	UCUGGUUG G UAGAAUUG	12853	CAAUUCUA GCCGAAAGGCGAGUGAGGUCU	CAACCAGA	31228
4899	6131	AGAAUUGA G CGAUCAGU	12854	ACUGAUUG GCCGAAAGGCGAGUGAGGUCU	UCAAUUCU	31229
4906	6124	AGCGAUCA G UCCGUUUG	12855	CAAAACGA GCCGAAAGGCGAGUGAGGUCU	UGAUCGCU	31230
4910	6120	AUCAGUCC G UUUGGCAU	12856	AUGCCAAA GCCGAAAGGCGAGUGAGGUCU	GGACUGAU	31231
4915	6115	UCCGUUUG G CAUGUUGA	12857	UCAACAUU GCCGAAAGGCGAGUGAGGUCU	CAAACCGA	31232
4919	6111	UUUGGCAU G UUGAUGU	12858	AACAUCAA GCCGAAAGGCGAGUGAGGUCU	AUGCCAAA	31233
4925	6105	AUGUUGAU G UUGUCCAG	12859	CUGGACAA GCCGAAAGGCGAGUGAGGUCU	AUCAACAU	31234
4928	6102	UUGAUGUU G UCCAGCAU	12860	AUGCGGGA GCCGAAAGGCGAGUGAGGUCU	AACAUCAA	31235
4933	6097	GUUGUCCA G CAUGAUUC	12861	GAAUCAUG GCCGAAAGGCGAGUGAGGUCU	UGGACAAC	31236
4942	6088	CAUGAUUC G UGCCUCAG	12862	CUGAGGCA GCCGAAAGGCGAGUGAGGUCU	GAAUCAUG	31237
4944	6086	UGAUUCGU G CCUCAGUC	12863	GACUGAGG GCCGAAAGGCGAGUGAGGUCU	ACGAUUA	31238
4950	6080	GUGCCUCA G UCCAUUGG	12864	CCAUUGGA GCCGAAAGGCGAGUGAGGUCU	UGAGGCAC	31239
4959	6071	UCCAUUGG G CGAAGUUC	12865	GAACUUCG GCCGAAAGGCGAGUGAGGUCU	CCAUUGGA	31240
4964	6066	UGGGCGAA G UUCGAGUC	12866	GACUCGAA GCCGAAAGGCGAGUGAGGUCU	UUCGCCCA	31241
4970	6060	AAGUUGCA G UCGUCUUC	12867	GAAGACGA GCCGAAAGGCGAGUGAGGUCU	UCGAACUU	31242
4973	6057	UUCGAGUC G UCUCUUAU	12868	AAUGAAGA GCCGAAAGGCGAGUGAGGUCU	GACUCGAA	31243
4983	6047	CUUCAUUC G UGUGCCCC	12869	GGGGCACA GCCGAAAGGCGAGUGAGGUCU	GAAUGAAG	31244
4985	6045	UCAUUCGU G UGCCCCCC	12870	GGGGGGCA GCCGAAAGGCGAGUGAGGUCU	ACGAUUA	31245
4987	6043	AUUCGUUGU G CCCCACAU	12871	AUGGGGGG GCCGAAAGGCGAGUGAGGUCU	ACAGAAU	31246
5000	6030	CCAUAACA G UACUCAUC	12872	GAUGAGUA GCCGAAAGGCGAGUGAGGUCU	UGUUAUGG	31247
5017	6013	ACCAACUU G CGACGGAU	12873	AUCCGUCG GCCGAAAGGCGAGUGAGGUCU	AAGUUGGU	31248
5038	5992	ACCGAUAC G UCCAGGUC	12874	GACGUGGA GCCGAAAGGCGAGUGAGGUCU	GUUACGGU	31249
5044	5986	ACGUCCAC G UCUCUGGG	12875	CCCAGAGA GCCGAAAGGCGAGUGAGGUCU	GUGGACGU	31250
5052	5978	GUCUCUGG G CGGCACUA	12876	UAGUGCCG GCCGAAAGGCGAGUGAGGUCU	CCAGAGAC	31251
5055	5975	UCUGGCGG G CACUAGCU	12877	AGCUAGUG GCCGAAAGGCGAGUGAGGUCU	CGCCACGA	31252
5061	5969	CGGCACUA G CUGCUGUC	12878	GACAGCAG GCCGAAAGGCGAGUGAGGUCU	UAGUGCCG	31253
5064	5966	CACUAGCU G CUGUCACU	12879	AGUGACAG GCCGAAAGGCGAGUGAGGUCU	AGCUAGUG	31254
5067	5963	UAGCUGCU G UCACUGCA	12880	UGCAGUGA GCCGAAAGGCGAGUGAGGUCU	AGCAGCUA	31255
5073	5957	CUGUCACU G CAGAUUGU	12881	ACCAUCUG GCCGAAAGGCGAGUGAGGUCU	AGUGACAG	31256
5080	5950	UGCAGAUU G UUCUCCCA	12882	UGGGAGAA GCCGAAAGGCGAGUGAGGUCU	CAUCUGCA	31257
5112	5918	CUCCUUCU G UUAUGAUG	12883	CAUCAUAA GCCGAAAGGCGAGUGAGGUCU	AGAAGGAG	31258
5121	5909	UUAUGAUG G UUGGUUUC	12884	GAAACCAA GCCGAAAGGCGAGUGAGGUCU	CAUCAUAA	31259
5125	5905	GAUGGUUG G UUUCACAC	12885	GUGUGAAA GCCGAAAGGCGAGUGAGGUCU	CAACCAUC	31260
5141	5889	CUCUCCG G CUGUCAAU	12886	AUUGACAG GCCGAAAGGCGAGUGAGGUCU	CGGAAGAG	31261
5144	5886	UUCGGCGU G UCAAUCAC	12887	GUGAUUGA GCCGAAAGGCGAGUGAGGUCU	AGCCGGAA	31262

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5156	5874	AUCACCCU G CUCGCCUU	12888	AAGGCGAG GCCGAAAGGCGAGUGAGGUCU	AGGGUGAU	31263
5160	5870	CCCUGCUC G CCUUGAAG	12889	CUUCAAGG GCCGAAAGGCGAGUGAGGUCU	GAGCAGGG	31264
5168	5862	GCCUUGAA G UUAGCCCC	12890	GGGCUAA GCCGAAAGGCGAGUGAGGUCU	UUCAAGGC	31265
5172	5858	UGAAGUUA G CCCCCAUU	12891	AAUGGGGG GCCGAAAGGCGAGUGAGGUCU	UAACUUA	31266
5189	5841	UCAGAUAU G UCUGUUGU	12892	ACAACAGA GCCGAAAGGCGAGUGAGGUCU	AUAUCUGA	31267
5193	5837	AUAUGUCU G UUGUGAUA	12893	UAUCACAA GCCGAAAGGCGAGUGAGGUCU	AGACAUAU	31268
5196	5834	UGUCUGUU G UGAUAACA	12894	UGUUAUCA GCCGAAAGGCGAGUGAGGUCU	AACAGACA	31269
5207	5823	AUAACAAA G UCCCAAUC	12895	GAUUGGGA GCCGAAAGGCGAGUGAGGUCU	UUUGUUAU	31270
5219	5811	CAAUCAUC G UUCUUAACA	12896	UGUAAGAA GCCGAAAGGCGAGUGAGGUCU	GAUGAUUG	31271
5234	5796	CAUUUUGG G UACUCCGU	12897	ACGGAGUA GCCGAAAGGCGAGUGAGGUCU	CCAAAUG	31272
5241	5789	GGUACUCC G UCUCGUAC	12898	GUACGAGA GCCGAAAGGCGAGUGAGGUCU	GGAGUACC	31273
5246	5784	UCCGUCUC G UACGACUU	12899	AAGUCGUA GCCGAAAGGCGAGUGAGGUCU	GAGACGGA	31274
5258	5772	GACUUUCU G UUCAAUUG	12900	CAAUUGAA GCCGAAAGGCGAGUGAGGUCU	AGAAAGUC	31275
5283	5747	UCUUUCCA G CACGUUGU	12901	ACAACGUG GCCGAAAGGCGAGUGAGGUCU	UGGAAAGA	31276
5287	5743	UCCAGCAC G UUGUAGGC	12902	GCCUACAA GCCGAAAGGCGAGUGAGGUCU	GUGCUGGA	31277
5290	5740	AGCACGUU G UAGGCAAA	12903	UUUGCCUA GCCGAAAGGCGAGUGAGGUCU	AACGUGCU	31278
5294	5736	CGUUGUAG G CAAAGGGC	12904	GCCUUUUG GCCGAAAGGCGAGUGAGGUCU	CUACAACG	31279
5301	5729	GGCAAAGG G CAAUUCUA	12905	UGAGAUUG GCCGAAAGGCGAGUGAGGUCU	CCUUUGCC	31280
5329	5701	GACACUAG G CACAAACC	12906	GGUUUGUG GCCGAAAGGCGAGUGAGGUCU	CUAGUGUC	31281
5343	5687	ACCAAACC G UCUUCCCG	12907	CGGGAAGA GCCGAAAGGCGAGUGAGGUCU	GGUUUGGU	31282
5352	5678	UCUCCCCG G UGUUUCU	12908	AGAAUACA GCCGAAAGGCGAGUGAGGUCU	CGGGAAGA	31283
5354	5676	UUCCCGGU G UAUUCUGU	12909	ACAGAAUA GCCGAAAGGCGAGUGAGGUCU	ACCGGGAA	31284
5361	5669	UGUAUUCU G UGAUCCAU	12910	AUGGAUCA GCCGAAAGGCGAGUGAGGUCU	AGAAUACA	31285
5372	5658	AUCCAUC G UAUCCAGA	12911	UCUGGAUA GCCGAAAGGCGAGUGAGGUCU	GAUUGGAU	31286
5381	5649	UAUCCAGA G UUCCAAGC	12912	GCUUGGAA GCCGAAAGGCGAGUGAGGUCU	UCUGGAUA	31287
5388	5642	AGUUCCAA G CUCGAUCC	12913	GGAUUCGAG GCCGAAAGGCGAGUGAGGUCU	UUGGAACU	31288
5406	5624	GGAUUCUA G UCUGUAAG	12914	CUUACAGA GCCGAAAGGCGAGUGAGGUCU	UGAGAUCC	31289
5410	5620	CUAGUCU G UAGUCGG	12915	CCGACUUA GCCGAAAGGCGAGUGAGGUCU	AGACUGAG	31290
5414	5616	GUCUGUAA G UCGGAAAU	12916	AUUUCCGA GCCGAAAGGCGAGUGAGGUCU	UUACAGAC	31291
5425	5605	GGAAAUUG G UGAUUGG	12917	CCAAUUCA GCCGAAAGGCGAGUGAGGUCU	CAAUUUC	31292
5454	5576	GAUCUGAA G UGCCUGGU	12918	ACCAGGCA GCCGAAAGGCGAGUGAGGUCU	UUCAGAU	31293
5456	5574	UCUGAAGU G CCUGGUGG	12919	CCACCAGG GCCGAAAGGCGAGUGAGGUCU	ACUUCAGA	31294
5461	5569	AGUGCCUG G UGGGUGG	12920	CCACCCCA GCCGAAAGGCGAGUGAGGUCU	CAGGCACU	31295
5466	5564	CUGGUGGG G UGGCUGUC	12921	GACAGCCA GCCGAAAGGCGAGUGAGGUCU	CCCACCAG	31296
5469	5561	GUGGGUGG G CUGUCAUG	12922	CAUGACAG GCCGAAAGGCGAGUGAGGUCU	CACCCAC	31297
5472	5558	GGGUGGCU G UCAUGAAU	12923	AUUCAUUA GCCGAAAGGCGAGUGAGGUCU	AGCCACC	31298
5484	5546	UGAAUAUU G CCGCCGCC	12924	GGCGGCGG GCCGAAAGGCGAGUGAGGUCU	AAUAUUA	31299
5487	5543	AUAUUGCC G CCGCCUCC	12925	GGAGGCGG GCCGAAAGGCGAGUGAGGUCU	GGCAUAU	31300
5490	5540	UUGCGGCC G CUCCCCU	12926	AGGGGAGG GCCGAAAGGCGAGUGAGGUCU	GGCGCAA	31301
5500	5530	CUCCCCUA G CUCGACCU	12927	AGGUCGAG GCCGAAAGGCGAGUGAGGUCU	UAGGGGAG	31302
5511	5519	CGACCUUU G UGGAUUG	12928	CAUUUCCA GCCGAAAGGCGAGUGAGGUCU	AAAGGUG	31303
5519	5511	GUGGAAAU G UAACCUU	12929	AGAGGUUA GCCGAAAGGCGAGUGAGGUCU	AUUUCCAC	31304
5529	5501	AACCUCUU G CUGCAUUG	12930	CAUUGCAG GCCGAAAGGCGAGUGAGGUCU	AAGAGGUU	31305
5532	5498	CUCUUGCU G CAUUGCUA	12931	UAGCAUUG GCCGAAAGGCGAGUGAGGUCU	AGCAAGAG	31306
5537	5493	GCUGCAAU G CUAGCUGG	12932	CCAGCUAG GCCGAAAGGCGAGUGAGGUCU	AUUGCAGC	31307
5541	5489	CAUUGCUA G CUGGGUCG	12933	CGACCCAG GCCGAAAGGCGAGUGAGGUCU	UAGCAUUG	31308
5546	5484	CUAGCUGG G UCGUGGAA	12934	UUCACCGA GCCGAAAGGCGAGUGAGGUCU	CCAGCUAG	31309
5550	5480	CUGGGUCG G UGAAUAGA	12935	UCAUUUCA GCCGAAAGGCGAGUGAGGUCU	CGACCCAG	31310
5559	5471	UGAAUAGA G CCUCAUCC	12936	GGAUAGAG GCCGAAAGGCGAGUGAGGUCU	UCAUUUCA	31311
5579	5451	ACGAACAG G UUGUAGUU	12937	AACUACAA GCCGAAAGGCGAGUGAGGUCU	CUGUUCGU	31312
5582	5448	AACAGGUU G UAGUUCGG	12938	CCGAACUA GCCGAAAGGCGAGUGAGGUCU	AACCUGUU	31313
5585	5445	AGGUUGUA G UUCGGCAC	12939	GUGCCGAA GCCGAAAGGCGAGUGAGGUCU	UACAACCU	31314
5590	5440	GUAGUUCG G CACCCUGU	12940	ACAGGGUG GCCGAAAGGCGAGUGAGGUCU	CGAACUAC	31315
5597	5433	GGCACCCU G UGAGGAGA	12941	UCUCCUUA GCCGAAAGGCGAGUGAGGUCU	AGGGUGCC	31316
5611	5419	AGACAUCA G CCUGUGGG	12942	CCCACAGG GCCGAAAGGCGAGUGAGGUCU	UGAUGUCU	31317
5615	5415	AUCAGCCU G UGGGUGAG	12943	CUCACCCA GCCGAAAGGCGAGUGAGGUCU	AGGCUGAU	31318
5619	5411	GCCUGUGG G UGAGGGUA	12944	UACCCUCA GCCGAAAGGCGAGUGAGGUCU	CCACAGGC	31319
5625	5405	GGGUGAGG G UAGCAUGA	12945	UCAUGCUA GCCGAAAGGCGAGUGAGGUCU	CCUACCCC	31320
5628	5402	UGAGGGUA G CAUGACAC	12946	GUGUCAUG GCCGAAAGGCGAGUGAGGUCU	UACCCUCA	31321
5665	5365	UCCAUAUU G UUCUCUGG	12947	CCAGAGAA GCCGAAAGGCGAGUGAGGUCU	AUAUUGGA	31322
5674	5356	UUCUCUGG G CACUGCGG	12948	CCGCAGUG GCCGAAAGGCGAGUGAGGUCU	CCAGAGAA	31323
5679	5351	UGGGCACU G CGGAUGUC	12949	GACAUCCG GCCGAAAGGCGAGUGAGGUCU	AGUGCCCA	31324

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5685	5345	CUGCGGAU G UCUGGUAC	12950	GUACCAGA GCCGAAAGGCGAGUGAGGUCU AUCCGCAG	31325
5690	5340	GAUGUCUG G UACCGGAU	12951	AUCCGGUA GCCGAAAGGCGAGUGAGGUCU CAGACAUC	31326
5701	5329	CCGGAUGG G CAGUCCUC	12952	GAGGACUG GCCGAAAGGCGAGUGAGGUCU CCAUCCGG	31327
5704	5326	GAUGGGCA G UCCUCUCA	12953	UGAGAGGA GCCGAAAGGCGAGUGAGGUCU UGCCCAUC	31328
5713	5317	UCCUCUCA G UGCUUCAG	12954	CUGAAGCA GCCGAAAGGCGAGUGAGGUCU UGAGAGGA	31329
5715	5315	CUCUCAGU G CUUCAGCC	12955	GGCUGAAG GCCGAAAGGCGAGUGAGGUCU ACUGAGAG	31330
5721	5309	GUGCUUCA G CCAUCUCA	12956	UGAGAUGG GCCGAAAGGCGAGUGAGGUCU UGAAGCAC	31331
5730	5300	CCAUCUCA G CAGCCACA	12957	UGUGGCUG GCCGAAAGGCGAGUGAGGUCU UGAGAUGG	31332
5733	5297	UCUCAGCA G CCACAACC	12958	GGUUGUGG GCCGAAAGGCGAGUGAGGUCU UGCUGAGA	31333
5745	5285	CAACCCUG G UUGGUGCU	12959	AGCACCAA GCCGAAAGGCGAGUGAGGUCU CAGGGUUG	31334
5749	5281	CCUGGUUG G UGCUAGCA	12960	UGCUAGCA GCCGAAAGGCGAGUGAGGUCU CAACCAAG	31335
5751	5279	UGGUUGGU G CUAGCAG	12961	CGUGCUAG GCCGAAAGGCGAGUGAGGUCU ACCAACCA	31336
5755	5275	UGGUGCUA G CACGGCUG	12962	CAGCCGUG GCCGAAAGGCGAGUGAGGUCU UAGCACCA	31337
5760	5270	CUAGCAG G CUGUUCUC	12963	GAGAACAG GCCGAAAGGCGAGUGAGGUCU CGUGCUAG	31338
5763	5267	GCACGGCU G UUCUCAGU	12964	ACUGAGAA GCCGAAAGGCGAGUGAGGUCU AGCCGUGC	31339
5770	5260	UGUUCUCA G UCUUCUGU	12965	ACAGAAGA GCCGAAAGGCGAGUGAGGUCU UGAGAACA	31340
5777	5253	AGUCUUCU G UUUUUGGC	12966	GCCAUAAA GCCGAAAGGCGAGUGAGGUCU AGAAGACU	31341
5784	5246	UGUUUAUG G CCUCUUG	12967	CAAAGAGG GCCGAAAGGCGAGUGAGGUCU CAUAACA	31342
5800	5230	GAUGAUCU G UGGCAGAA	12968	UUCUGCCA GCCGAAAGGCGAGUGAGGUCU AGAUAUC	31343
5803	5227	GAUCUGUG G CAGAAUCC	12969	GGAUUCUG GCCGAAAGGCGAGUGAGGUCU CACAGAUC	31344
5817	5213	UCCUCCUU G UUUUACCG	12970	CGGUAAAA GCCGAAAGGCGAGUGAGGUCU AAGGAGGA	31345
5826	5204	UUUUACCG G CGCCGGGA	12971	UCCCGCGG GCCGAAAGGCGAGUGAGGUCU CGGUAAAA	31346
5828	5202	UUACCGGC G CCGGGAUG	12972	CAUCCCGG GCCGAAAGGCGAGUGAGGUCU GCCGUAAA	31347
5845	5185	GAGAUCCA G UACAGUGA	12973	UCACUGUA GCCGAAAGGCGAGUGAGGUCU UGGAUCUC	31348
5850	5180	CCAGUACA G UGAUCUGU	12974	ACAGAUCA GCCGAAAGGCGAGUGAGGUCU UGUACUGG	31349
5857	5173	AGUGAUCU G UUUUUUCC	12975	GGAAAAAA GCCGAAAGGCGAGUGAGGUCU AGAUCACU	31350
5869	5161	UUUCCUCA G CAUCUCAG	12976	CUGAGAUG GCCGAAAGGCGAGUGAGGUCU UGAGGAAA	31351
5878	5152	CAUCUCAG G UUCGAAUC	12977	GAUUCGAA GCCGAAAGGCGAGUGAGGUCU CUGAGAUG	31352
5889	5141	CGAAUCCG G CUGGGAUU	12978	AAUCCCGG GCCGAAAGGCGAGUGAGGUCU CGGAUUCG	31353
5899	5131	UGGGAUUG G CUCAUCCA	12979	UGGAUGAG GCCGAAAGGCGAGUGAGGUCU CAUCCCA	31354
5920	5110	UUCACCCU G CACUAUCG	12980	CGAUAGUG GCCGAAAGGCGAGUGAGGUCU AGGUGAG	31355
5928	5102	GCACUAUC G CGCUUUG	12981	CAUAAGCG GCCGAAAGGCGAGUGAGGUCU GAUAGUGC	31356
5930	5100	ACUAUCGC G CUUAUGUA	12982	UACAUAAG GCCGAAAGGCGAGUGAGGUCU GCGAUAGU	31357
5936	5094	GCGCUUUA G UAUAGGCC	12983	GGCUCAUA GCCGAAAGGCGAGUGAGGUCU AUAAGCGC	31358
5942	5088	AUGUAUGA G CCGUUGGG	12984	CCCAACCG GCCGAAAGGCGAGUGAGGUCU UCAUAACU	31359
5945	5085	UAUGAGCC G UUGGGCAU	12985	AUGCCCAA GCCGAAAGGCGAGUGAGGUCU GGCUAUA	31360
5950	5080	GCCGUUGG G CAUUAUGA	12986	UCAUAUUG GCCGAAAGGCGAGUGAGGUCU CCAACGGC	31361
5966	5064	ACUCCAUU G CCAUAAAG	12987	CUUUAUGG GCCGAAAGGCGAGUGAGGUCU AAUGGAGU	31362
5974	5056	GCCAUAUA G CCCAAUCA	12988	UGAUUGGG GCCGAAAGGCGAGUGAGGUCU UUUUUGGC	31363
5990	5040	ACAUCAAC G UUUUUGUC	12989	GACAAAAA GCCGAAAGGCGAGUGAGGUCU GGUAUGU	31364
5996	5034	CCGUUUUU G UCCACUAU	12990	AUAGUGGA GCCGAAAGGCGAGUGAGGUCU AAAAACGG	31365
6007	5023	CACUAUUG G UGAGCCUG	12991	CAGGCUCA GCCGAAAGGCGAGUGAGGUCU CAUAGUG	31366
6011	5019	AUUGGUGA G CCUGAUGU	12992	ACAUCAGG GCCGAAAGGCGAGUGAGGUCU UCACCAAU	31367
6018	5012	AGCCUGAU G UUCAGUG	12993	CACUGGAA GCCGAAAGGCGAGUGAGGUCU AUCAGGCU	31368
6024	5006	AUGUCCA G UGGGGAAG	12994	CUUCCCA GCCGAAAGGCGAGUGAGGUCU UGGAACAU	31369
6032	4998	GUGGGGAA G UCCAAAGU	12995	ACUUAUGA GCCGAAAGGCGAGUGAGGUCU UUCCCCAC	31370
6039	4991	AGUCCAAA G UCACGGCC	12996	GGCCGUGA GCCGAAAGGCGAGUGAGGUCU UUUGGACU	31371
6045	4985	AAGUCACG G CCCGAUU	12997	AAUCGGGG GCCGAAAGGCGAGUGAGGUCU CGUGACUU	31372
6064	4966	UCCUCAG G UGUUUUGA	12998	UCAAAACA GCCGAAAGGCGAGUGAGGUCU CUGAAGGA	31373
6066	4964	CUUCAGGU G UUUUGAAC	12999	GUUCAAUA GCCGAAAGGCGAGUGAGGUCU ACCUGAAG	31374
6082	4948	CACCCUG G UUUCGUCU	13000	AGACGAAA GCCGAAAGGCGAGUGAGGUCU CAGGGGUG	31375
6087	4943	CUGGUUUC G UCUGGACG	13001	CGUCCAGA GCCGAAAGGCGAGUGAGGUCU GAAACCCAG	31376
6095	4935	GUCUGGAC G UUCUUAAC	13002	GUUAAGAA GCCGAAAGGCGAGUGAGGUCU GUCCAGAC	31377
6104	4926	UUCUUAAC G UUCUUGCC	13003	GGCAAGAA GCCGAAAGGCGAGUGAGGUCU GUUAGAA	31378
6110	4920	ACGUUCUU G CCAGGUUC	13004	GAACCCUG GCCGAAAGGCGAGUGAGGUCU AAGAACGU	31379
6115	4915	CUUGCCAG G UUCCACCA	13005	UGGUGGAA GCCGAAAGGCGAGUGAGGUCU CUGGCAAG	31380
6133	4897	AAUCAUCU G CACCUCAU	13006	AUGAGGUG GCCGAAAGGCGAGUGAGGUCU AGAUAUU	31381
6145	4885	CUCAUCCU G CCCGUUCC	13007	GGACCGGG GCCGAAAGGCGAGUGAGGUCU AGGAUGAG	31382
6149	4881	UCCUGCCC G UUCACUUC	13008	AAGUGGAA GCCGAAAGGCGAGUGAGGUCU GGGCAGGA	31383
6158	4872	UUCACUUC G UGUGCAA	13009	UUGCAGCA GCCGAAAGGCGAGUGAGGUCU AAGUGGAA	31384
6160	4870	CCACUUGU G CUGCAAUU	13010	AAUUGCAG GCCGAAAGGCGAGUGAGGUCU ACAAGUGG	31385
6163	4867	CUUGUGCU G CAAUUC	13011	GGAAAUUG GCCGAAAGGCGAGUGAGGUCU AGCACAAG	31386

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6175	4855	UUUCCAGG G UCCUCCGU	13012	ACGGAGGA GCCGAAAGGCGAGUGAGGUCU	CCUGGAAA	31387
6182	4848	GGUCCUCC G UAACAAAG	13013	CUUUGUUA GCCGAAAGGCGAGUGAGGUCU	GGAGGACC	31388
6190	4840	GUACAAA G UCGAUCCU	13014	AGGAUCGA GCCGAAAGGCGAGUGAGGUCU	UUUGUUAU	31389
6209	4821	UUGACACU G CCCAGUA	13015	UACUGGGG GCCGAAAGGCGAGUGAGGUCU	AGUGUCAA	31390
6215	4815	CUGCCCA G UAUGGGUC	13016	GACCCAUA GCCGAAAGGCGAGUGAGGUCU	UGGGGCAG	31391
6221	4809	CAGUAUGG G UCCAGGCG	13017	CGCCUGGA GCCGAAAGGCGAGUGAGGUCU	CCAUACUG	31392
6227	4803	GGGUCCAG G CGGCCUC	13018	GAGGGCCG GCCGAAAGGCGAGUGAGGUCU	CUGGACCC	31393
6230	4800	UCCAGGCG G CCCUCUCC	13019	GGAGAGGG GCCGAAAGGCGAGUGAGGUCU	CGCCUGGA	31394
6239	4791	CCCUCCUCC G CUCAUCAA	13020	UUGAUGAG GCCGAAAGGCGAGUGAGGUCU	GGAGAGGG	31395
6249	4781	UCAUCAA G CGCUCUCU	13021	AGGAGCCG GCCGAAAGGCGAGUGAGGUCU	UUUGAUGA	31396
6252	4778	UCAAAGCG G CUCCUUUU	13022	AAAAGGAG GCCGAAAGGCGAGUGAGGUCU	CGCUUUGA	31397
6261	4769	CUCCUUUU G UUGUAUGC	13023	GCAUACAA GCCGAAAGGCGAGUGAGGUCU	AAAAGGAG	31398
6264	4766	CUUUGUUU G UAUGCCAA	13024	UUGGCAUA GCCGAAAGGCGAGUGAGGUCU	AACAAAAG	31399
6268	4762	UGUUGUAU G CCAAAGGG	13025	CCCUUUGG GCCGAAAGGCGAGUGAGGUCU	AUACAACA	31400
6276	4754	GCCAAAGG G UGUGGAAA	13026	UUUCCACA GCCGAAAGGCGAGUGAGGUCU	CCUUUGCG	31401
6278	4752	ACCAGGU G UGGAAAC	13027	GUUUUCCA GCCGAAAGGCGAGUGAGGUCU	ACCCUUUG	31402
6302	4728	ACCAUCAC G CCGCUCUCC	13028	GGAGCGGG GCCGAAAGGCGAGUGAGGUCU	UUUGAUGU	31403
6306	4724	UCACGCCC G CUCCUGCU	13029	AGCAGGAG GCCGAAAGGCGAGUGAGGUCU	GGGCGUGA	31404
6312	4718	CCGCUCCU G CUUGAUAA	13030	UUUAUAA G GCCGAAAGGCGAGUGAGGUCU	AGGAGCGG	31405
6323	4707	UGAUAAU G CCGAGCAG	13031	CUGCUCGG GCCGAAAGGCGAGUGAGGUCU	AGUUUAUA	31406
6328	4702	ACUGCCGA G CAGCCAC	13032	GUGGGCUG GCCGAAAGGCGAGUGAGGUCU	UCGGCAGU	31407
6331	4699	GCCGAGCA G CCCACGAG	13033	CUCGUGGG GCCGAAAGGCGAGUGAGGUCU	UGCUCGGC	31408
6339	4691	GCCCACGA G UCAUGAUC	13034	GAUCAUGA GCCGAAAGGCGAGUGAGGUCU	UCGUGGGC	31409
6350	4680	AUGAUCCU G UAGACGCC	13035	GGCGUCUA GCCGAAAGGCGAGUGAGGUCU	AGGAUCAU	31410
6356	4674	CUGUAGAC G CCGUGGU	13036	ACCACCGG GCCGAAAGGCGAGUGAGGUCU	GUCUACAG	31411
6360	4670	AGACGCCG G UGGUCGUG	13037	CACGACCA GCCGAAAGGCGAGUGAGGUCU	CGGGCUCU	31412
6363	4667	CGCCGGUG G UCGUGUCC	13038	GGACACGA GCCGAAAGGCGAGUGAGGUCU	CACCGGGC	31413
6366	4664	CGGUGGUC G UGUCCCCC	13039	GGGGGACA GCCGAAAGGCGAGUGAGGUCU	GACACCGG	31414
6368	4662	GUGGUCGU G UCCCCCU	13040	AAGGGGGA GCCGAAAGGCGAGUGAGGUCU	ACGACCAC	31415
6380	4650	CCCUUUUU G UACUCCUU	13041	AAGGAGUA GCCGAAAGGCGAGUGAGGUCU	AAAAGGGG	31416
6391	4639	CUCCUUUG G UGAGGGAG	13042	CUCCCUCA GCCGAAAGGCGAGUGAGGUCU	CAAAGGAG	31417
6399	4631	GUGAGGGA G UGUCCAC	13043	GUGGGACA GCCGAAAGGCGAGUGAGGUCU	UCCUCAC	31418
6401	4629	GAGGAGU G UCCCACAA	13044	UUGUGGGA GCCGAAAGGCGAGUGAGGUCU	ACUCCUC	31419
6413	4617	CACAAAC G CUCCUCU	13045	AGAGGAGG GCCGAAAGGCGAGUGAGGUCU	GUGUUGUG	31420
6426	4604	CUCUCUUU G UGUUUUGG	13046	CCAAUACA GCCGAAAGGCGAGUGAGGUCU	AAAGAGAG	31421
6428	4602	CUCUUUGU G UAUUGGAG	13047	CUCCAUA GCCGAAAGGCGAGUGAGGUCU	ACAAAGAG	31422
6438	4592	AUUGGAGA G UUAUCCAA	13048	UUGGAUAA GCCGAAAGGCGAGUGAGGUCU	UCUCCAAU	31423
6463	4567	UACUGAGG G CAAGAUG	13049	CAUCUUG GCCGAAAGGCGAGUGAGGUCU	CCUCAGUA	31424
6471	4559	CAAAGAU G CCCAGGGG	13050	CCCCUGGG GCCGAAAGGCGAGUGAGGUCU	AAUCUUGC	31425
6480	4550	CCCAGGGG G UGUACGCA	13051	UGCGUACA GCCGAAAGGCGAGUGAGGUCU	CCCUUGGG	31426
6482	4548	CAGGGGGU G UACGCACU	13052	AGUGCGUA GCCGAAAGGCGAGUGAGGUCU	ACCCCCUG	31427
6486	4544	GGGUGUAC G CACUAAUC	13053	GAUUGAGU GCCGAAAGGCGAGUGAGGUCU	GUACACCC	31428
6495	4535	CACUAAUC G CGAGACAG	13054	CUGUCUCG GCCGAAAGGCGAGUGAGGUCU	GAUUGAGU	31429
6514	4516	CAUUCUGA G CAUCCAU	13055	UAUGGAUG GCCGAAAGGCGAGUGAGGUCU	UCAGAAUG	31430
6532	4498	CUUCCAAG G UGUCCUG	13056	CAGGAGCA GCCGAAAGGCGAGUGAGGUCU	CUUGGAAG	31431
6534	4496	UCCAAGGU G CUCCUGGA	13057	UCCAGGAG GCCGAAAGGCGAGUGAGGUCU	ACCUUGGA	31432
6553	4477	AUUCAUUA G CUGGAAGU	13058	ACUCCAG GCCGAAAGGCGAGUGAGGUCU	UCAUGAAU	31433
6560	4470	AGCUGGAA G UUUCCAUC	13059	GAUGGAAA GCCGAAAGGCGAGUGAGGUCU	UUCCAGCU	31434
6577	4453	AUCAUCAA G CCGACAU	13060	AUGUGCGG GCCGAAAGGCGAGUGAGGUCU	UUGAUGAU	31435
6580	4450	AUCAAGCC G CACAUCAA	13061	UUGAUGUG GCCGAAAGGCGAGUGAGGUCU	GGCUUGAU	31436
6596	4434	ACUCUUUC G CUCGAGCC	13062	GGCUCGAG GCCGAAAGGCGAGUGAGGUCU	GAAGAGU	31437
6602	4428	UCGUCGGA G CCUGUAU	13063	AUUAACAG GCCGAAAGGCGAGUGAGGUCU	UCGAGCGA	31438
6606	4424	UCGAGCCU G UAAUUUCU	13064	AGAAAUUA GCCGAAAGGCGAGUGAGGUCU	AGGCUCGA	31439
6615	4415	UAAUUUCU G CAUCACUU	13065	AAGUGAUG GCCGAAAGGCGAGUGAGGUCU	AGAAAUUA	31440
6635	4395	CAGGAAU G UCCGCCGU	13066	ACGGCGGA GCCGAAAGGCGAGUGAGGUCU	AUUUCCUG	31441
6639	4391	AAAUGUCC G CCGUUCUC	13067	GAGAACGG GCCGAAAGGCGAGUGAGGUCU	GGACAUUU	31442
6642	4388	UGUCCGCC G UUCUCUA	13068	UGAGAGAA GCCGAAAGGCGAGUGAGGUCU	GGCGGACA	31443
6663	4367	ACAUAUUC G UUGAUUUC	13069	GAAAUCAA GCCGAAAGGCGAGUGAGGUCU	AGAUAUGU	31444
6687	4343	UCACGAAA G CAGCAAAC	13070	GUUUGCUG GCCGAAAGGCGAGUGAGGUCU	UUUCGUGA	31445
6690	4340	CGAAAGCA G CAAACAUG	13071	CAUGUUUG GCCGAAAGGCGAGUGAGGUCU	UGCUUUCG	31446
6700	4330	AAACAUGA G CCCCAGCA	13072	UCGCGGGG GCCGAAAGGCGAGUGAGGUCU	UCAUGUUU	31447
6705	4325	UGAGCCCC G CGAUAGUC	13073	GACUAUCG GCCGAAAGGCGAGUGAGGUCU	GGGGCUCA	31448

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6711	4319	CCGCGAUA G UCAUUGGA	13074	UCCAAUGA GCCGAAAGGCGAGUGAGGUCU	UAUCGCGG	31449
6723	4307	UUGGAAUG G CCAUGGAG	13075	CUCCAUGG GCCGAAAGGCGAGUGAGGUCU	CAUCCCAA	31450
6731	4299	GCCAUGGA G UCAAUGUC	13076	GACAUUGA GCCGAAAGGCGAGUGAGGUCU	UCCAUGGC	31451
6737	4293	GAGUCAAU G UCAAGCUC	13077	GAGCUUGA GCCGAAAGGCGAGUGAGGUCU	AUUGACUC	31452
6742	4288	AAUGUCAA G CUCUGCCA	13078	UGGCAGAG GCCGAAAGGCGAGUGAGGUCU	UUGACAUU	31453
6747	4283	CAAGCUCU G CCAGCCCU	13079	AGGGCUGG GCCGAAAGGCGAGUGAGGUCU	AGAGCUUG	31454
6751	4279	CUCUGCCA G CCCUCCGA	13080	UCGGAGGG GCCGAAAGGCGAGUGAGGUCU	UGGCAGAG	31455
6765	4265	CGACGAUG G CAAACAUU	13081	AAUGUUUG GCCGAAAGGCGAGUGAGGUCU	CAUCGUCG	31456
6776	4254	AACAUUAG G CCGACAGC	13082	GCUGUCGG GCCGAAAGGCGAGUGAGGUCU	CUAAUGUU	31457
6783	4247	GGCCGACA G CUGUCAUC	13083	GAUGACAG GCCGAAAGGCGAGUGAGGUCU	UGUCGGCC	31458
6786	4244	CGACAGCU G UCAUCAU	13084	AGUGAUGA GCCGAAAGGCGAGUGAGGUCU	AGCUGUCG	31459
6798	4232	UCACUUCA G UUGCGGGC	13085	GCCCGCAA GCCGAAAGGCGAGUGAGGUCU	UGAAGUGA	31460
6801	4229	CUUCAGUU G CGGGCCAU	13086	AUGGCCCG GCCGAAAGGCGAGUGAGGUCU	AACUGAAG	31461
6805	4225	AGUUGCGG G CCAUCCGC	13087	GCGGAUGG GCCGAAAGGCGAGUGAGGUCU	CCGCAACU	31462
6812	4218	GGCCAUTC G CGUUUACG	13088	CGUAAACG GCCGAAAGGCGAGUGAGGUCU	GGAUGGCC	31463
6814	4216	CCAUCCGC G UUUACGGU	13089	ACCGUAAA GCCGAAAGGCGAGUGAGGUCU	GCGGAUGG	31464
6821	4209	CGUUUACG G UUGGGAUC	13090	GAUCCCAA GCCGAAAGGCGAGUGAGGUCU	CGUAAACG	31465
6834	4196	GAUCACAU G CAAUCAGU	13091	ACUGAUUG GCCGAAAGGCGAGUGAGGUCU	AUGUGAUC	31466
6841	4189	UGCAAUCA G UCCAGCAG	13092	CUGCUGGA GCCGAAAGGCGAGUGAGGUCU	UGAUTUGA	31467
6846	4184	UCAGUCCA G CAGCAAGG	13093	CCUUGCUG GCCGAAAGGCGAGUGAGGUCU	UGGACUGA	31468
6849	4181	GUCCAGCA G CAAGGAUC	13094	GAUCCUUG GCCGAAAGGCGAGUGAGGUCU	UGCUGGAC	31469
6863	4167	AUCAUGGG G UUGAAAAG	13095	CUUUUCAA GCCGAAAGGCGAGUGAGGUCU	CCCAUGAU	31470
6871	4159	GUUGAAAA G UCCUGUUG	13096	CAACAGGA GCCGAAAGGCGAGUGAGGUCU	UUUUCAAC	31471
6876	4154	AAAGUCCU G UUGAGGCU	13097	AGCCUCAA GCCGAAAGGCGAGUGAGGUCU	AGGACUUU	31472
6882	4148	CUGUUGAG G CUAGAGCC	13098	GGCUCUAG GCCGAAAGGCGAGUGAGGUCU	CUCAACAG	31473
6888	4142	AGGCUAGA G CCAAGCAU	13099	AUGCUUUG GCCGAAAGGCGAGUGAGGUCU	UCUAGCCU	31474
6893	4137	AGAGCCAA G CAUAGCAG	13100	CUGCUAUG GCCGAAAGGCGAGUGAGGUCU	UUGGCUCU	31475
6898	4132	CAAGCAUA G CAGACTUG	13101	CAAGUCUG GCCGAAAGGCGAGUGAGGUCU	UAUGCUCU	31476
6906	4124	GCAGACUU G CUCCUUUC	13102	GAAAGGAG GCCGAAAGGCGAGUGAGGUCU	AAGUCUGC	31477
6921	4109	UCUUUUUU G CAGCUGCA	13103	UGCAGCUG GCCGAAAGGCGAGUGAGGUCU	AAAAAAGA	31478
6924	4106	UUUUUGCA G CUGCACUC	13104	GAGUGCAG GCCGAAAGGCGAGUGAGGUCU	UGCAAAAA	31479
6927	4103	UUGCAGCU G CACUCCUC	13105	GAGGAGUG GCCGAAAGGCGAGUGAGGUCU	AGCUGCAA	31480
6950	4080	CUGAUCAA G CUGCCUUA	13106	AUAGGCAG GCCGAAAGGCGAGUGAGGUCU	UUGAUCAG	31481
6953	4077	AUCAAGCU G CCUAUCC	13107	GGAAUAGG GCCGAAAGGCGAGUGAGGUCU	AGCUUGAU	31482
6973	4057	CAUCAACA G CAGUAUCC	13108	GGAUACUG GCCGAAAGGCGAGUGAGGUCU	UGUUGAUG	31483
6976	4054	CAACAGCA G UAUCUGU	13109	ACAGGAUA GCCGAAAGGCGAGUGAGGUCU	UGCUGUUG	31484
6983	4047	AGUAUCCU G UACACAUC	13110	GAUGUGUA GCCGAAAGGCGAGUGAGGUCU	AGGAUACU	31485
7001	4029	AGAUUCAA G CAUCUCAG	13111	CUGAGAUG GCCGAAAGGCGAGUGAGGUCU	UUGAAUCU	31486
7009	4021	GCAUCUCA G CCCGGGUG	13112	CACCCGGG GCCGAAAGGCGAGUGAGGUCU	UGAGAUGC	31487
7015	4015	CAGCCCGG G UGUUAGCA	13113	UGCUAACA GCCGAAAGGCGAGUGAGGUCU	CCGGGCGG	31488
7017	4013	GCCCGGGU G UUAGCAGG	13114	CCUGCUAA GCCGAAAGGCGAGUGAGGUCU	ACCCGGGC	31489
7021	4009	GGGUGUUA G CAGGGCUA	13115	UAGCCCTG GCCGAAAGGCGAGUGAGGUCU	UAAACACC	31490
7026	4004	UUAGCAGG G CUAGCAGC	13116	GCUGCUAG GCCGAAAGGCGAGUGAGGUCU	CCUGCUAA	31491
7030	4000	CAGGGCUA G CAGCGGAA	13117	UUCGCGUG GCCGAAAGGCGAGUGAGGUCU	UAGCCCTG	31492
7033	3997	GGCUAGCA G CGGAACAA	13118	UUGUUCGG GCCGAAAGGCGAGUGAGGUCU	UGCUGACC	31493
7046	3984	ACAACCAC G UUUGAUGU	13119	ACAUCAAA GCCGAAAGGCGAGUGAGGUCU	UGUGUUGU	31494
7053	3977	CGUUUGAU G UCGUUGUG	13120	CACAACGA GCCGAAAGGCGAGUGAGGUCU	AUCAAAAC	31495
7056	3974	UUGAUGUC G UUGUGAAU	13121	AUUCACAA GCCGAAAGGCGAGUGAGGUCU	GACAUCAA	31496
7059	3971	AUGUCGUU G UGAAUGUU	13122	AACAUUCA GCCGAAAGGCGAGUGAGGUCU	AACGACAU	31497
7065	3965	UUGUGAAU G UUAUGGCU	13123	AGCCAUAU GCCGAAAGGCGAGUGAGGUCU	AUUCACAA	31498
7071	3959	AUGUUAUG G CUCUCAGU	13124	ACUGAGAG GCCGAAAGGCGAGUGAGGUCU	CAUAACAU	31499
7078	3952	GGCUCUCA G UAUCAUCC	13125	GGAUGAUA GCCGAAAGGCGAGUGAGGUCU	UGAGAGCC	31500
7089	3941	UCAUCCAA G CUACCGCC	13126	GGCGGUGG GCCGAAAGGCGAGUGAGGUCU	UUGGAUGA	31501
7095	3935	AAGCUACC G CCAGUGAA	13127	UUCACUGG GCCGAAAGGCGAGUGAGGUCU	GGUAGCUU	31502
7099	3931	UACCGCCA G UGAAUUCA	13128	UGAAUUCA GCCGAAAGGCGAGUGAGGUCU	UGGCGGUA	31503
7129	3901	CUCCGAGA G CAGAAUUU	13129	AAAUUCUG GCCGAAAGGCGAGUGAGGUCU	UCUGGGAG	31504
7139	3891	AGAAUUUG G CGGGCAUC	13130	GAUGCCCG GCCGAAAGGCGAGUGAGGUCU	CAAAUUCU	31505
7143	3887	UUUGCGGG G CAUCGUGA	13131	UCACAGAG GCCGAAAGGCGAGUGAGGUCU	CCGCCAAA	31506
7148	3882	CGGGCAUC G UGAUAAGC	13132	GCUAUAUA GCCGAAAGGCGAGUGAGGUCU	AGCCCGCG	31507
7155	3875	CGUGAUAA G CCAUUUGA	13133	UCAAUUGG GCCGAAAGGCGAGUGAGGUCU	UUAUCACG	31508
7173	3857	AGAAAACA G CCGCCAAC	13134	GUUGGCGG GCCGAAAGGCGAGUGAGGUCU	UGUUUUUC	31509
7176	3854	AAACAGCC G CCAACAUC	13135	GAUGUUGG GCCGAAAGGCGAGUGAGGUCU	GGCUGUUU	31510

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7193	3837	AACAAAU G UUCUCCUG	13136	CAGGAGAA GCCGAAAGGCGAGUGAGGUCU	AUUUUUUU	31511
7202	3828	UUCUCCUG G UUGGUCCA	13137	UGGACCAA GCCGAAAGGCGAGUGAGGUCU	CAGGAGAA	31512
7206	3824	CCUGGUG G UCCAUCUC	13138	GAGAUGGA GCCGAAAGGCGAGUGAGGUCU	CAACCAGG	31513
7215	3815	UCCAUCUC G CUUUGAGA	13139	UCUCAAG GCCGAAAGGCGAGUGAGGUCU	GAGAUGGA	31514
7230	3800	GAAACGAU G CCACCAUA	13140	UAUGGGG GCCGAAAGGCGAGUGAGGUCU	AUCGUUUC	31515
7246	3784	AAACACUG G UUGUAUCU	13141	AGAUACAA GCCGAAAGGCGAGUGAGGUCU	CAGUGUUU	31516
7249	3781	CACUGGUU G UAUCUUGA	13142	UCAAGAU GCCGAAAGGCGAGUGAGGUCU	AACCAGUG	31517
7260	3770	UCUUGAAG G UCGCCAUG	13143	CAUGGCGA GCCGAAAGGCGAGUGAGGUCU	CUUCAAGA	31518
7263	3767	UGAAGGUC G CCAUGAGC	13144	GCUCAUG GCCGAAAGGCGAGUGAGGUCU	GACCUUCA	31519
7270	3760	CGCCAUGA G CGCCAAGU	13145	ACUUGGCG GCCGAAAGGCGAGUGAGGUCU	UCAUGGCG	31520
7272	3758	CCAUGAGC G CCAAGUGU	13146	ACACUUG GCCGAAAGGCGAGUGAGGUCU	GCUCAUGG	31521
7277	3753	AGCGCCAA G UGUACCAC	13147	GUGGUACA GCCGAAAGGCGAGUGAGGUCU	UUGGCGCU	31522
7279	3751	CGCCAAGU G UACCACGU	13148	ACUGGUA GCCGAAAGGCGAGUGAGGUCU	ACUUGGCG	31523
7286	3744	UGUACCAC G UCUCUCC	13149	GGAGGAGA GCCGAAAGGCGAGUGAGGUCU	GUGGUACA	31524
7308	3722	UAGAUUCU G CGAAAGCU	13150	AGCUUUCG GCCGAAAGGCGAGUGAGGUCU	AGAAUCUA	31525
7314	3716	CUGCGAAA G CUGCCCCC	13151	GGGGGCG GCCGAAAGGCGAGUGAGGUCU	UUUCGCG	31526
7317	3713	CGAAAGCU G CCCCACCC	13152	GGUGGGG GCCGAAAGGCGAGUGAGGUCU	AGCUUUCG	31527
7337	3693	AUGACAU G CGUAACAC	13153	GUGUACG GCCGAAAGGCGAGUGAGGUCU	UAUGUCAU	31528
7339	3691	GACAUAGC G UAACACAU	13154	AUGUGUA GCCGAAAGGCGAGUGAGGUCU	GUUAUGUC	31529
7350	3680	ACACAUA G UGUAAGUA	13155	UACUUA CA GCCGAAAGGCGAGUGAGGUCU	UGAUGUGU	31530
7352	3678	ACAUCAGU G UAAGUAAU	13156	AUUACUUA GCCGAAAGGCGAGUGAGGUCU	ACUGAUGU	31531
7356	3674	CAGUGUAA G UAAUGCCC	13157	GGCAUUA GCCGAAAGGCGAGUGAGGUCU	UUACACUG	31532
7361	3669	UAAGUAAU G CCCCCAAA	13158	UUUGGGG GCCGAAAGGCGAGUGAGGUCU	AUUACUUA	31533
7381	3649	CAGGACUA G CAGAGCAA	13159	UUGCUCUG GCCGAAAGGCGAGUGAGGUCU	UAGUCUUG	31534
7386	3644	CUAGCAGA G CAAUCAGU	13160	ACUGAUUG GCCGAAAGGCGAGUGAGGUCU	UCUGCUAG	31535
7393	3637	AGCAAUCA G UAUAGCUG	13161	CAGCUUA GCCGAAAGGCGAGUGAGGUCU	UGAUUGCU	31536
7398	3632	UCAGUAUA G CUGGCAUG	13162	CAUGCCAG GCCGAAAGGCGAGUGAGGUCU	UAUACUGA	31537
7402	3628	UAUAGCUG G CAUGCUGA	13163	UCAGUAG GCCGAAAGGCGAGUGAGGUCU	CAGCUUA	31538
7406	3624	GCUGGCAU G CUGAUCUU	13164	AAGAUCAG GCCGAAAGGCGAGUGAGGUCU	AUGCCAGC	31539
7416	3614	UGAUCUUG G CUGUCCAC	13165	GUGGACAG GCCGAAAGGCGAGUGAGGUCU	CAAGAUA	31540
7419	3611	UCUUGGCU G UCCACCUC	13166	GAGGUGGA GCCGAAAGGCGAGUGAGGUCU	AGCCAAGA	31541
7430	3600	CACCUCU G CGAAGGAC	13167	GUCCUUCG GCCGAAAGGCGAGUGAGGUCU	AAGAGGUG	31542
7446	3584	CCUCCUGG G UGGCCAAG	13168	CUUGGCCA GCCGAAAGGCGAGUGAGGUCU	CCAGGAGG	31543
7449	3581	CCUGGGUG G CCAAGAAC	13169	GUUCUUG GCCGAAAGGCGAGUGAGGUCU	CACCCAGG	31544
7469	3561	ACCAGAAG G CCCAACUG	13170	CAGUUGGG GCCGAAAGGCGAGUGAGGUCU	CUUCUGGU	31545
7484	3546	UGAAAAGG G UCAAUCAU	13171	AUGAUUGA GCCGAAAGGCGAGUGAGGUCU	CCUUUUA	31546
7497	3533	UCAUAUA G CAUUAUA	13172	UUAUAUG GCCGAAAGGCGAGUGAGGUCU	UGAUAUGA	31547
7506	3524	CAUUAUA G CAUUCACU	13173	AGUGAUG GCCGAAAGGCGAGUGAGGUCU	UUAUAUGA	31548
7516	3514	AUUCACU G UGACUGCA	13174	UGCAGUCA GCCGAAAGGCGAGUGAGGUCU	AAGUGAAU	31549
7522	3508	UUGUGACU G CACGAGGG	13175	CCUCGUG GCCGAAAGGCGAGUGAGGUCU	AGCACA	31550
7530	3500	GCACGAGG G UCUUUUA	13176	UGAAAAGA GCCGAAAGGCGAGUGAGGUCU	CCUCGUGC	31551
7543	3487	UUCAUCAU G UCUCUGUG	13177	CACAGAGA GCCGAAAGGCGAGUGAGGUCU	AUGAUGAA	31552
7549	3481	AUGUCUCU G UGGUCUGA	13178	UCAGACCA GCCGAAAGGCGAGUGAGGUCU	AGAGACAU	31553
7552	3478	UCUCUGUG G UCUGAUCU	13179	AGAUCAGA GCCGAAAGGCGAGUGAGGUCU	CACAGAGA	31554
7577	3453	UACCAACA G CCGCUGUC	13180	GACAGCGG GCCGAAAGGCGAGUGAGGUCU	UGUUGGUA	31555
7580	3450	CAACAGCC G CUGUCAGU	13181	ACUGACAG GCCGAAAGGCGAGUGAGGUCU	GCUGUUG	31556
7583	3447	CAGCCGCU G UCAGUUUG	13182	CAAACUGA GCCGAAAGGCGAGUGAGGUCU	AGCGGCG	31557
7587	3443	CGCUGUCA G UUUGGUAG	13183	CUACCAA GCCGAAAGGCGAGUGAGGUCU	UGACAGCG	31558
7592	3438	UCAGUUUG G UAGCGCAG	13184	CUGCGCUA GCCGAAAGGCGAGUGAGGUCU	CAAACUGA	31559
7595	3435	GUUUGGUA G CGCAGUGG	13185	CCACUGCG GCCGAAAGGCGAGUGAGGUCU	UACCAAAC	31560
7597	3433	UUGGUAGC G CAGUGGUG	13186	CACCACUG GCCGAAAGGCGAGUGAGGUCU	GCUACCAA	31561
7600	3430	GUAGCGCA G UGGUGGUA	13187	UACCACCA GCCGAAAGGCGAGUGAGGUCU	UGCGCUAC	31562
7603	3427	GCGCAGUG G UGGUAAAG	13188	CCUACCA GCCGAAAGGCGAGUGAGGUCU	CACUGCGC	31563
7606	3424	CAGUGGUG G UAAGGUGC	13189	GCACCUUA GCCGAAAGGCGAGUGAGGUCU	CACCACUG	31564
7611	3419	GUGGUAA G UGCAGCUC	13190	GAGCUGCA GCCGAAAGGCGAGUGAGGUCU	CUUACCA	31565
7613	3417	GGUAAAGU G CAGCUCU	13191	AGGAGCUG GCCGAAAGGCGAGUGAGGUCU	ACCUUAC	31566
7616	3414	AAGGUGCA G CUCCUGCA	13192	UGCAGGAG GCCGAAAGGCGAGUGAGGUCU	UGCACCUU	31567
7622	3408	CAGCUCU G CAGACCA	13193	UGUGCUG GCCGAAAGGCGAGUGAGGUCU	AGGAGCUG	31568
7625	3405	CUCCUGCA G CACCAUUC	13194	GAUUGGUG GCCGAAAGGCGAGUGAGGUCU	UGCAGGAG	31569
7635	3395	ACCAUUCU G UUAUCAAC	13195	GUUGAUUA GCCGAAAGGCGAGUGAGGUCU	AGAUUGGU	31570
7649	3381	AACUUUCC G CUCUCUGU	13196	ACAGAGAG GCCGAAAGGCGAGUGAGGUCU	GGAAAGUU	31571
7656	3374	CGCUCUCU G UGGUGGUG	13197	CACCACCA GCCGAAAGGCGAGUGAGGUCU	AGAGAGCG	31572

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7659	3371	UCUCUGUG G UGGUGCGA	13198	UCGCACCA GCCGAAAGGCGAGUGAGGUCU	CACAGAGA	31573
7662	3368	CUGUGGUG G UGCGAGUG	13199	CACUCGCA GCCGAAAGGCGAGUGAGGUCU	CACCACAG	31574
7664	3366	GUGGUGGU G CGAGUGGC	13200	GCACUCG GCCGAAAGGCGAGUGAGGUCU	ACCACCAC	31575
7668	3362	UGGUGCGA G UGGCAGGU	13201	ACCUGCCA GCCGAAAGGCGAGUGAGGUCU	UCGCACCA	31576
7671	3359	UGCGAGUG G CAGGUCCA	13202	UGGACCUG GCCGAAAGGCGAGUGAGGUCU	CACUCGCA	31577
7675	3355	AGUGGCAG G UCCACGGU	13203	ACCUGGA GCCGAAAGGCGAGUGAGGUCU	CUGCCACU	31578
7682	3348	GUCCACG G UGUCCGCA	13204	UGCGACA GCCGAAAGGCGAGUGAGGUCU	CUUGGACC	31579
7684	3346	UCCACGGU G UCCGCAGC	13205	GCUGCGA GCCGAAAGGCGAGUGAGGUCU	ACCGUGGA	31580
7688	3342	CGGUGUCC G CAGCUCUC	13206	GAGAGCUG GCCGAAAGGCGAGUGAGGUCU	GGACACCG	31581
7691	3339	UGUCCGCA G CUCUCACU	13207	AGUGAGAG GCCGAAAGGCGAGUGAGGUCU	UGCGGACA	31582
7704	3326	CACUCAGG G UGACCGUA	13208	UACGCUCA GCCGAAAGGCGAGUGAGGUCU	CCUGAGUG	31583
7710	3320	GGGUGACC G UAGUCCU	13209	AGGAACUA GCCGAAAGGCGAGUGAGGUCU	GGUACCCC	31584
7713	3317	UGACCGUA G UUCUGGG	13210	CCCAGGAA GCCGAAAGGCGAGUGAGGUCU	UACGGUCA	31585
7721	3309	GUUCCUGG G CAGUAAUC	13211	GAUUAUCG GCCGAAAGGCGAGUGAGGUCU	CCAGGAAC	31586
7724	3306	CCUGGGCA G UAAUCGAA	13212	UUGCAUUA GCCGAAAGGCGAGUGAGGUCU	UGCCCAGG	31587
7733	3297	UAAUCGAA G UCAAUCUC	13213	GAGAUUGA GCCGAAAGGCGAGUGAGGUCU	UUCGAUUA	31588
7748	3282	UCUACCCG G CCUUCGUC	13214	GACGAAGG GCCGAAAGGCGAGUGAGGUCU	CGGGUAGA	31589
7754	3276	CGGCCUUC G UCCCAUGG	13215	CCAUGGGA GCCGAAAGGCGAGUGAGGUCU	GAAGGCCG	31590
7763	3267	UCCCAUGG G CCCUGGUU	13216	AACCAGGG GCCGAAAGGCGAGUGAGGUCU	CCAUGGGA	31591
7769	3261	GGGCCCUG G UUUUGUGU	13217	ACACAAA GCCGAAAGGCGAGUGAGGUCU	CAGGGCCC	31592
7774	3256	CUGGUUUU G UGUCUUGU	13218	ACAAGACA GCCGAAAGGCGAGUGAGGUCU	AAAACCCG	31593
7776	3254	GGUUUUGU G UCUUGUAC	13219	GUACAAGA GCCGAAAGGCGAGUGAGGUCU	ACAAAACC	31594
7781	3249	UGUGUCUU G UACCCAGG	13220	CCUGGGUA GCCGAAAGGCGAGUGAGGUCU	AAGACACA	31595
7789	3241	GUACCCAG G UCUCGUAU	13221	AUCGGAGA GCCGAAAGGCGAGUGAGGUCU	CUGGGUAC	31596
7799	3231	CUCCGAUU G UGAUUGCU	13222	AGCAUUA GCCGAAAGGCGAGUGAGGUCU	AAUCCGAG	31597
7805	3225	UUGUGAUU G CUUCGUGG	13223	CCACGAAG GCCGAAAGGCGAGUGAGGUCU	AAUCACAA	31598
7810	3220	AUUGCUUC G UGGUCCCG	13224	CGGACCA GCCGAAAGGCGAGUGAGGUCU	GAAGCAAU	31599
7813	3217	GCUCUGUG G UCCCGCCA	13225	UGGCGGGA GCCGAAAGGCGAGUGAGGUCU	CACGAAGC	31600
7818	3212	GUGGUCCC G CCAGUGUG	13226	CACACUGG GCCGAAAGGCGAGUGAGGUCU	GGGACCAC	31601
7822	3208	UCCCGCCA G UGUGACUG	13227	CAGUCACA GCCGAAAGGCGAGUGAGGUCU	UGGCGGGA	31602
7824	3206	CCGCCAGU G UGACUGGU	13228	ACCAGUCA GCCGAAAGGCGAGUGAGGUCU	ACUGGCGG	31603
7831	3199	UGUGACUG G UAUUAUCA	13229	UGAUAAUA GCCGAAAGGCGAGUGAGGUCU	CAGUCACA	31604
7841	3189	AUUAUCAA G UCACUCUC	13230	GAGAGUGA GCCGAAAGGCGAGUGAGGUCU	UUGAUAAU	31605
7862	3168	AUUCCAUC G CCCACAA	13231	UUGUGGGG GCCGAAAGGCGAGUGAGGUCU	GAUGGAUU	31606
7872	3158	CCCACAAG G UAUUCGUC	13232	GACGCAUA GCCGAAAGGCGAGUGAGGUCU	CUUGUGGG	31607
7876	3154	CAAGGUUU G CGUCUCAG	13233	CUGAGACG GCCGAAAGGCGAGUGAGGUCU	AUACCUUG	31608
7878	3152	AGGUUAGC G UCUCAGGC	13234	GCCUGAGA GCCGAAAGGCGAGUGAGGUCU	GCAUACCU	31609
7885	3145	CGUCUCAG G CCACGUAC	13235	GUACGUGG GCCGAAAGGCGAGUGAGGUCU	CUGAGACG	31610
7890	3140	CAGGCCAC G UACAUGAU	13236	AUAUGUA GCCGAAAGGCGAGUGAGGUCU	GUGGCCUG	31611
7917	3113	CCAGAACU G CCCUUUCA	13237	UGAAAGGG GCCGAAAGGCGAGUGAGGUCU	AGUUUCUG	31612
7927	3103	CCUUUCA G CUUCCACG	13238	CGUGGAAG GCCGAAAGGCGAGUGAGGUCU	UUGAAAGG	31613
7935	3095	GUUCCAC G UAUCAUUG	13239	CAUUGAUA GCCGAAAGGCGAGUGAGGUCU	GUGGAAGC	31614
7945	3085	AUCAUUGA G CCUGCUUU	13240	AAAGCAGG GCCGAAAGGCGAGUGAGGUCU	UCAUUGAU	31615
7949	3081	UUGAGCCU G CUUUAU	13241	AUUGAAAG GCCGAAAGGCGAGUGAGGUCU	AGGCUCA	31616
7970	3060	UAGGACAG G UCACUGUG	13242	CACAGUGA GCCGAAAGGCGAGUGAGGUCU	CUGUCCUA	31617
7976	3054	AGGUCACU G UGGAUCGC	13243	GCGAUCCA GCCGAAAGGCGAGUGAGGUCU	AGUGACCU	31618
7983	3047	UGUGGAUC G CCAAGUUG	13244	CAACUUGG GCCGAAAGGCGAGUGAGGUCU	GAUCCACA	31619
7988	3042	AUCGCCAA G UGUUUCUU	13245	AAGAACAA GCCGAAAGGCGAGUGAGGUCU	UUGGCGAU	31620
7991	3039	GCCAAGUU G UUCUUGAC	13246	GUCAAGAA GCCGAAAGGCGAGUGAGGUCU	AACUUGGC	31621
8001	3029	UCUUGACA G CCGUCCA	13247	UGGAACGG GCCGAAAGGCGAGUGAGGUCU	UGUCAAGA	31622
8004	3026	UGACAGCC G UUCCAAUG	13248	CAUUGGAA GCCGAAAGGCGAGUGAGGUCU	GGCUUGCA	31623
8021	3009	AUCUUCGA G UCACAUUC	13249	GAAUGUGA GCCGAAAGGCGAGUGAGGUCU	UCGAAAGU	31624
8031	2999	CACAUUCA G UUGUGUUG	13250	CAACACAA GCCGAAAGGCGAGUGAGGUCU	UGAAUGUG	31625
8034	2996	AUUCAGUU G UGUUGCUC	13251	GAGCAACA GCCGAAAGGCGAGUGAGGUCU	AACUGAAU	31626
8036	2994	UCAGUUGU G UUGCUCUC	13252	GAGAGCAA GCCGAAAGGCGAGUGAGGUCU	ACAACUGA	31627
8039	2991	GUUGUGUU G CUCUCUCU	13253	AGAGAGAG GCCGAAAGGCGAGUGAGGUCU	AACACAAC	31628
8067	2963	ACAUCCGA G UGCUGUG	13254	CACGACGA GCCGAAAGGCGAGUGAGGUCU	UCGGAUGU	31629
8069	2961	AUCCGAGU G CUGGUGAG	13255	CUCACCAG GCCGAAAGGCGAGUGAGGUCU	ACUCCGAU	31630
8073	2957	GAGUGCUG G UGAGACCA	13256	UGGUUCA GCCGAAAGGCGAGUGAGGUCU	CAGCACUC	31631
8105	2925	ACUUCUAA G CUAUUCCA	13257	UGGAUAG GCCGAAAGGCGAGUGAGGUCU	UUAGAAGU	31632
8115	2915	UAUCCAA G CGCAUUC	13258	GAAUCGCG GCCGAAAGGCGAGUGAGGUCU	UUGGAAUA	31633
8117	2913	UCCAAGC G CGAUUCUG	13259	CAGAAUCG GCCGAAAGGCGAGUGAGGUCU	GCUUGGAA	31634

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8127	2903	GAUUCUGA G UCGACAU	13260	AUGUCCGA GCCGAAAGGCGAGUGAGGUCU UCAGAAUC	31635
8142	2888	AUUCCTUG G UCUCGGA	13261	UCCGGAGA GCCGAAAGGCGAGUGAGGUCU CAAGGAU	31636
8166	2864	CCACAAG G UGUUGU	13262	CAACAACA GCCGAAAGGCGAGUGAGGUCU CUUUGUG	31637
8168	2862	ACAAAGGU G UGUUGGC	13263	GCCAACA GCCGAAAGGCGAGUGAGGUCU ACCUUGU	31638
8171	2859	AAGGUGU G UUGCGAG	13264	CUCGCCA GCCGAAAGGCGAGUGAGGUCU AACACCU	31639
8175	2855	UGUUGU G CGAGUUCU	13265	AGAACUCG GCCGAAAGGCGAGUGAGGUCU CAACAACA	31640
8179	2851	GUUGGCGA G UUCUGUG	13266	CACCAGAA GCCGAAAGGCGAGUGAGGUCU UCGCCAAC	31641
8185	2845	GAGUUCUG G UGCAAAUA	13267	UAUUUGCA GCCGAAAGGCGAGUGAGGUCU CAGAACUC	31642
8187	2843	GUUCUGU G CAAAUAAA	13268	UUUAUUUG GCCGAAAGGCGAGUGAGGUCU ACCAGAAC	31643
8211	2819	UUCGCCAG G CCUCCAG	13269	CUGGAAGG GCCGAAAGGCGAGUGAGGUCU CUGGGGAA	31644
8219	2811	GCCUCCA G CCAAUUUC	13270	GAAAUUGG GCCGAAAGGCGAGUGAGGUCU UGGAAGGC	31645
8238	2792	AUUUUUCC G UGGUGCG	13271	CGCCACCA GCCGAAAGGCGAGUGAGGUCU GGA AAAU	31646
8241	2789	UUUCCGUG G UGGCGUG	13272	CACCGCCA GCCGAAAGGCGAGUGAGGUCU CACGAAA	31647
8244	2786	CCGUGGUG G CGGUGAG	13273	CCUACCG GCCGAAAGGCGAGUGAGGUCU CACCACGG	31648
8247	2783	UGGUGCG G UGAGGCGU	13274	ACGCCUCA GCCGAAAGGCGAGUGAGGUCU CGCCACCA	31649
8252	2778	GCGUGAG G CGUUUAGG	13275	CCUAAAG GCCGAAAGGCGAGUGAGGUCU CUCACGC	31650
8254	2776	GGUGAGG G UUUAGGUG	13276	CACCUAAA GCCGAAAGGCGAGUGAGGUCU GCCUACCC	31651
8260	2770	GCGUUUAG G UGCUGACU	13277	AGUCAGCA GCCGAAAGGCGAGUGAGGUCU CUAAACGC	31652
8262	2768	GUUUAGGU G CUGACUUG	13278	CAAGUCAG GCCGAAAGGCGAGUGAGGUCU ACCUAAAC	31653
8270	2760	GCUGACUU G UACAUUC	13279	GGAAUGUA GCCGAAAGGCGAGUGAGGUCU AAGUCAGC	31654
8284	2746	UCCCUCCU G UUUCUAA	13280	UUGAGAAA GCCGAAAGGCGAGUGAGGUCU AGGAGGGA	31655
8306	2724	ACACUAG G UCCACACC	13281	GGUGUGGA GCCGAAAGGCGAGUGAGGUCU CUUAGUGU	31656
8331	2699	UCAAAGA G UGUUCAGC	13282	GCUGAACA GCCGAAAGGCGAGUGAGGUCU UCUUUUGA	31657
8333	2697	AAAAGAGU G UUCAGCUC	13283	GAGCUGAA GCCGAAAGGCGAGUGAGGUCU ACUCUUUU	31658
8338	2692	AGUGUUA G CUCGUCCU	13284	AGGACGAG GCCGAAAGGCGAGUGAGGUCU UGAACACU	31659
8342	2688	UUCAGCUC G UCCUUCAC	13285	GUGAAGGA GCCGAAAGGCGAGUGAGGUCU GAGCUGAA	31660
8352	2678	CCUUCACU G CUUCCAC	13286	GUGGGAAG GCCGAAAGGCGAGUGAGGUCU AGUGAAGG	31661
8368	2662	CAUUUGAU G CUCAGUC	13287	GACUGGAG GCCGAAAGGCGAGUGAGGUCU AUCAAUG	31662
8374	2656	AUGCUGA G UCUGGAAA	13288	UUUCCAGA GCCGAAAGGCGAGUGAGGUCU UGGAGCAU	31663
8389	2641	AACUGAUC G UAGACGC	13289	GCGGUCUA GCCGAAAGGCGAGUGAGGUCU GAUCAGUU	31664
8396	2634	CGUAGACC G CACACUCC	13290	GGAGUGUG GCCGAAAGGCGAGUGAGGUCU GGUCUACG	31665
8415	2615	CCUAUGA G CUUUCUGA	13291	UCAGAAAG GCCGAAAGGCGAGUGAGGUCU UCAUAAGG	31666
8433	2597	UGAUUCUG G CUAGGCCU	13292	AGGCCUAG GCCGAAAGGCGAGUGAGGUCU CAGAUA	31667
8438	2592	UUGGCUAG G CCUUGUGG	13293	CCACAAG GCCGAAAGGCGAGUGAGGUCU CUAGCCAA	31668
8443	2587	UAGGCCUU G UGGCGUUU	13294	AAACGCCA GCCGAAAGGCGAGUGAGGUCU AAGGCCUA	31669
8446	2584	GCCUUGUG G CGUUUCAG	13295	CUGAAACG GCCGAAAGGCGAGUGAGGUCU CACAAGGC	31670
8448	2582	CUUGUGGC G UUUCAGGG	13296	CCUGAAA GCCGAAAGGCGAGUGAGGUCU GCCACAAG	31671
8456	2574	GUUUCAGG G UAAUACU	13297	AAGUAUUA GCCGAAAGGCGAGUGAGGUCU CCUGAAAC	31672
8465	2565	UAAUACU G UACCGGUC	13298	GACCGGUA GCCGAAAGGCGAGUGAGGUCU AAGUAUUA	31673
8471	2559	UUGUACCG G UCCAUCCA	13299	UGGAUGGA GCCGAAAGGCGAGUGAGGUCU CGUACAA	31674
8481	2549	CCAUCCAA G CCUCCACA	13300	UGUGGAGG GCCGAAAGGCGAGUGAGGUCU UUGGAUGG	31675
8495	2535	ACAUCAU G UGUUGAA	13301	UUCAUACA GCCGAAAGGCGAGUGAGGUCU AAUGAUGU	31676
8497	2533	AUCAUUGU G UAUGAACA	13302	UGUUCAUA GCCGAAAGGCGAGUGAGGUCU ACAUUGAU	31677
8524	2506	ACAUCUCA G CUCUUGCC	13303	GGCAAGAG GCCGAAAGGCGAGUGAGGUCU UGAGAUGU	31678
8530	2500	CAGCUCU G CCGGCUA	13304	UCAGCCCG GCCGAAAGGCGAGUGAGGUCU AAGAGCUG	31679
8534	2496	UCUUGCCG G CUGAUGUC	13305	GACAUCAG GCCGAAAGGCGAGUGAGGUCU CGCAAGA	31680
8540	2490	CGGCUGAU G UCUAUGGC	13306	GCCAUAGA GCCGAAAGGCGAGUGAGGUCU AUCAGCCG	31681
8547	2483	UGUCUAG G CACACCCA	13307	UGGGUGUG GCCGAAAGGCGAGUGAGGUCU CAUAGACA	31682
8556	2474	CACACCCA G UGUCAGCG	13308	CGCUGACA GCCGAAAGGCGAGUGAGGUCU UGGGUGUG	31683
8558	2472	CACCCAGU G UCAGCGUG	13309	CAGCUGA GCCGAAAGGCGAGUGAGGUCU ACUGGGUG	31684
8562	2468	CAGUGUCA G CGUGCACG	13310	CGUGCACG GCCGAAAGGCGAGUGAGGUCU UGACACUG	31685
8564	2466	GUGUCAGC G UGCACGU	13311	AACGUGCA GCCGAAAGGCGAGUGAGGUCU CGUGACAC	31686
8566	2464	GUCAGCGU G CACGUUCA	13312	UGAACGUG GCCGAAAGGCGAGUGAGGUCU ACGCUGAC	31687
8570	2460	GCGUGCAC G UUCACGGA	13313	UCCGUGAA GCCGAAAGGCGAGUGAGGUCU GUGCACGC	31688
8587	2443	GAGGAAGA G CAGAACUC	13314	GAGUUCUG GCCGAAAGGCGAGUGAGGUCU UCUUCUC	31689
8604	2426	CUCCAACU G CGAGAAC	13315	GUUUCUCG GCCGAAAGGCGAGUGAGGUCU AGUUGGAG	31690
8613	2417	CGAGAAC G UGAGACU	13316	AGUCUCA GCCGAAAGGCGAGUGAGGUCU GUUUCUCG	31691
8619	2411	ACGUGAGA G CUUUGGAC	13317	UGCCAUAG GCCGAAAGGCGAGUGAGGUCU UCUACGU	31692
8637	2393	UAUCACGA G CAUUGAUG	13318	CAUCAUAG GCCGAAAGGCGAGUGAGGUCU UCGUGAUA	31693
8645	2385	GCAUUGAU G CCCAUCCA	13319	UGGAUGGG GCCGAAAGGCGAGUGAGGUCU AUCAAUGC	31694
8664	2366	ACAGGAGA G CCCCAGC	13320	GCUGGGGG GCCGAAAGGCGAGUGAGGUCU UCUCUGU	31695
8671	2359	AGCCCCCA G CAAUCCU	13321	AAGGAUUG GCCGAAAGGCGAGUGAGGUCU UGGGGGCU	31696

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8680	2350	CAAUCCUU G CGUUAUCC	13322	GGUAUACG GCCGAAAGGCGAGUGAGGUCU	AAGGAUUG	31697
8682	2348	AUCCUUGC G UUAUCCAG	13323	CUGGAUAA GCCGAAAGGCGAGUGAGGUCU	GCAAGGAU	31698
8696	2334	CAGGACAU G CCUCCGAA	13324	UUCGGAGG GCCGAAAGGCGAGUGAGGUCU	AUGUCCUG	31699
8707	2323	UCCGAACA G UGAGCGGA	13325	UCCGCUCA GCCGAAAGGCGAGUGAGGUCU	UGUUCGGA	31700
8711	2319	AACAGUGA G CGGAAUGC	13326	GCAUUCGG GCCGAAAGGCGAGUGAGGUCU	UCACUGUU	31701
8718	2312	AGCGGAAU G CUCCUCCG	13327	CGGAGGAG GCCGAAAGGCGAGUGAGGUCU	AUUCGCGU	31702
8742	2288	GAUGGACA G CCUUCCCA	13328	UGGGAAGG GCCGAAAGGCGAGUGAGGUCU	UGUCCAUC	31703
8757	2273	CAACUGAG G UGAACACC	13329	GGUGUUCA GCCGAAAGGCGAGUGAGGUCU	CUCAGUUG	31704
8783	2247	GAUCCAAA G UCCCAAGC	13330	GCUUGGGA GCCGAAAGGCGAGUGAGGUCU	UUUGGAUC	31705
8790	2240	AGUCCCAA G CUGUGUCU	13331	AGACACAG GCCGAAAGGCGAGUGAGGUCU	UUUGGACU	31706
8793	2237	CCCAAGCU G UGUUCCCU	13332	AGGAGACA GCCGAAAGGCGAGUGAGGUCU	AGCUUGGG	31707
8795	2235	CAAGCUGU G UCUCUAG	13333	CUAGGAGA GCCGAAAGGCGAGUGAGGUCU	ACAGCUUG	31708
8805	2225	CUCCUAGA G CGGCUAGU	13334	ACUAGCCG GCCGAAAGGCGAGUGAGGUCU	UCUAGGAG	31709
8808	2222	CUAGAGCG G CUAGUCUC	13335	GAGACUAG GCCGAAAGGCGAGUGAGGUCU	CGCUCUAG	31710
8812	2218	AGCGGCUA G UCUCUGCG	13336	CGCAGAGA GCCGAAAGGCGAGUGAGGUCU	UAGCCGCU	31711
8818	2212	UAGUCUCU G CGCUCUUU	13337	AAGGACCG GCCGAAAGGCGAGUGAGGUCU	AGAGACUA	31712
8820	2210	GUCUCUGC G CUCCUUUG	13338	CAAAAGGAG GCCGAAAGGCGAGUGAGGUCU	CGAGAGAC	31713
8832	2198	CUUUGAGG G UGGUUGUA	13339	UACAACCA GCCGAAAGGCGAGUGAGGUCU	CCUCAAAG	31714
8835	2195	UGAGGGUG G UUGUAAAG	13340	CUUUACAA GCCGAAAGGCGAGUGAGGUCU	CACCCUCA	31715
8838	2192	GGGUGGUU G UAAAGGCU	13341	AGCCUUUA GCCGAAAGGCGAGUGAGGUCU	AACCACCC	31716
8844	2186	UUGUAAAG G CUUUGCCA	13342	UGGCAAGG GCCGAAAGGCGAGUGAGGUCU	CUUUAACA	31717
8849	2181	AAGGCUUU G CCAUUGCU	13343	AGCAUUGG GCCGAAAGGCGAGUGAGGUCU	AAAGCCUU	31718
8855	2175	UUGCCAAU G CUGCUUCC	13344	GGAAAGCAG GCCGAAAGGCGAGUGAGGUCU	AUUGGCAA	31719
8858	2172	CCAAUGCU G CUUCCAGA	13345	UCUGGAAG GCCGAAAGGCGAGUGAGGUCU	AGCAUUGG	31720
8870	2160	CCAGACUU G UGCCAAUG	13346	CAUUGGCA GCCGAAAGGCGAGUGAGGUCU	AAGUCUGG	31721
8872	2158	AGACUUGU G CCAAUGGU	13347	ACCAUUGG GCCGAAAGGCGAGUGAGGUCU	ACAAGUCU	31722
8879	2151	UGCCAAUG G UGAUUGAU	13348	AUCAAUCA GCCGAAAGGCGAGUGAGGUCU	CAUUGGCA	31723
8890	2140	AUUGAUUC G UUGUUCUC	13349	GAGAACAA GCCGAAAGGCGAGUGAGGUCU	AGAUCAAU	31724
8893	2137	GAUCUGUU G UUCUCCUC	13350	GAGGAGAA GCCGAAAGGCGAGUGAGGUCU	AACAGAUC	31725
8903	2127	UCUCCUCU G CCCACCAC	13351	GUGGUGGG GCCGAAAGGCGAGUGAGGUCU	AGAGGAGA	31726
8915	2115	ACCACUUA G UAUGAGUC	13352	GACUCAUA GCCGAAAGGCGAGUGAGGUCU	AUAGUGGU	31727
8921	2109	AUGUAUGA G UCUCAAA	13353	UUUGGAGA GCCGAAAGGCGAGUGAGGUCU	UCAUACAU	31728
8932	2098	UCCAAAGG G UGGUUCCA	13354	UGGAACCA GCCGAAAGGCGAGUGAGGUCU	CCUUUGGA	31729
8935	2095	AAAGGUGU G UUCCAAUU	13355	AAUUGGAA GCCGAAAGGCGAGUGAGGUCU	CACCCUUU	31730
8958	2072	GGACCUUA G CGUUGGCC	13356	GGCCAAAG GCCGAAAGGCGAGUGAGGUCU	UAAGGUCC	31731
8960	2070	ACCUUAGC G UUGGCCGU	13357	ACGGCCAA GCCGAAAGGCGAGUGAGGUCU	GUUAAGGU	31732
8964	2066	UAGCGUUG G CCGUGGCC	13358	GGCCACGG GCCGAAAGGCGAGUGAGGUCU	CAACGCUA	31733
8967	2063	CGUUGGCC G UGGCCACU	13359	AGUGGCCA GCCGAAAGGCGAGUGAGGUCU	GGCCAAAG	31734
8970	2060	UGGCCGUG G CCACUGAA	13360	UUCAGUGG GCCGAAAGGCGAGUGAGGUCU	CACGGCCA	31735
8987	2043	ACAAAGG G UUGACAGU	13361	ACUGUCAA GCCGAAAGGCGAGUGAGGUCU	CCUUUUGU	31736
8994	2036	GGUUGACA G UGACCAAU	13362	AUUGGUCA GCCGAAAGGCGAGUGAGGUCU	UUUCAACC	31737
9005	2025	ACCAAUUC G CCCACUGG	13363	CCAGUGGG GCCGAAAGGCGAGUGAGGUCU	AGAUUGGU	31738
9013	2017	GCCCACUG G CGUUAAGU	13364	ACCUAACG GCCGAAAGGCGAGUGAGGUCU	CAGUGGGC	31739
9015	2015	CCACUGGC G UUAAGGUG	13365	CGACCUAA GCCGAAAGGCGAGUGAGGUCU	GCCAGUGG	31740
9020	2010	GGCGUUG G UCGUUCAA	13366	UUGAACGA GCCGAAAGGCGAGUGAGGUCU	CUAACGCC	31741
9023	2007	GUUAGGUC G UUCAUGA	13367	UCAUUGAA GCCGAAAGGCGAGUGAGGUCU	UACCUAAC	31742
9033	1997	UCAUUGAA G CCACUGAC	13368	GUCAGUGG GCCGAAAGGCGAGUGAGGUCU	UUCAUUGA	31743
9056	1974	GGAACUUU G CAAGGUCC	13369	GGACCUUG GCCGAAAGGCGAGUGAGGUCU	AAAGUUCU	31744
9061	1969	UUUGCAAG G UCCAUCCG	13370	CGGAUGGA GCCGAAAGGCGAGUGAGGUCU	CUUGCAAA	31745
9069	1961	GUCCAUCU G UGCCAGUG	13371	CACUGGCA GCCGAAAGGCGAGUGAGGUCU	GGAUUGAC	31746
9071	1959	CCAUCUGU G CCAGUGUA	13372	UACACUGG GCCGAAAGGCGAGUGAGGUCU	ACGGAUGG	31747
9075	1955	CCGUGCCA G UGUACUGC	13373	CGAGUACA GCCGAAAGGCGAGUGAGGUCU	UGGCACGG	31748
9077	1953	GUGCCAGU G UACUGCAA	13374	UUGCAGUA GCCGAAAGGCGAGUGAGGUCU	ACUGGCAC	31749
9082	1948	AGUGUACU G CAAUUGCA	13375	UGGAAUUG GCCGAAAGGCGAGUGAGGUCU	AGUACACU	31750
9099	1931	ACACCACA G UGCCUGA	13376	UCACGGCA GCCGAAAGGCGAGUGAGGUCU	UGUGUGUU	31751
9101	1929	ACCACAGU G CCGUGACC	13377	GGUCACGG GCCGAAAGGCGAGUGAGGUCU	ACUGUGUU	31752
9104	1926	ACAGUGCC G UGACCUU	13378	ACAGGUCA GCCGAAAGGCGAGUGAGGUCU	GGCACUUG	31753
9111	1919	CGUGACCU G UGUCUGCG	13379	CGCAGACA GCCGAAAGGCGAGUGAGGUCU	AGGUCACG	31754
9113	1917	UGACCUUG G UCUGCGGG	13380	CCCGCAGA GCCGAAAGGCGAGUGAGGUCU	ACAGGUCA	31755
9117	1913	CUGUGUCU G CGGGAGUC	13381	GACUCCCG GCCGAAAGGCGAGUGAGGUCU	AGACACAG	31756
9123	1907	CUGCGGGA G UCCCAAGA	13382	UCUUGGGA GCCGAAAGGCGAGUGAGGUCU	UCCCGCAG	31757
9141	1889	ACUUGAAA G CCUUGAA	13383	UUCAAAGG GCCGAAAGGCGAGUGAGGUCU	UUUCAAGU	31758

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9155	1875	GAACAGAC G CCAUAGGU	13384	ACCUAUGG GCCGAAAGGCGAGUGAGGUCU	GUCUGUUC	31759
9162	1868	CGCCAUAG G UUGUCCCC	13385	GGGAACAA GCCGAAAGGCGAGUGAGGUCU	CUAUGGCG	31760
9165	1865	CAUAGGUU G UUCCCUUC	13386	GAAGGGAA GCCGAAAGGCGAGUGAGGUCU	AACCUAUG	31761
9178	1852	CUUCAACU G CAUUUUU	13387	AAAAAUUG GCCGAAAGGCGAGUGAGGUCU	AGUUGAAG	31762
9219	1811	GACCCGAC G UCAACUUG	13388	CAAGUUGA GCCGAAAGGCGAGUGAGGUCU	GUCGGGUC	31763
9231	1799	ACUUGACA G UGUUGCUU	13389	AAGCAACA GCCGAAAGGCGAGUGAGGUCU	UGUCAAGU	31764
9233	1797	UUGACAGU G UUGCUUGA	13390	UCAAGCAA GCCGAAAGGCGAGUGAGGUCU	ACUGUCAA	31765
9236	1794	ACAGUGUU G CUUGAAAA	13391	UUUUCAGG GCCGAAAGGCGAGUGAGGUCU	AACACUGU	31766
9258	1772	CAGGAAUG G CUCCAGCC	13392	GGCUGGAG GCCGAAAGGCGAGUGAGGUCU	CAUUCUG	31767
9264	1766	UGGCUCCA G CCAAAGCU	13393	AGCUUUUG GCCGAAAGGCGAGUGAGGUCU	UGGAGCCA	31768
9270	1760	CAGCCAAA G CUUGAUGC	13394	GCAUCAAG GCCGAAAGGCGAGUGAGGUCU	UUUGGCGU	31769
9277	1753	AGCUUGAU G CAGAGCUC	13395	GAGCUCUG GCCGAAAGGCGAGUGAGGUCU	AUCAAGCU	31770
9282	1748	GAUGCAGA G CUCCUCU	13396	AGAGGGAG GCCGAAAGGCGAGUGAGGUCU	UCUGCAUC	31771
9292	1738	UCCUCUUC G UGAGCCCA	13397	UGGGGCUA GCCGAAAGGCGAGUGAGGUCU	AAGAGGGA	31772
9296	1734	UCUUGUGA G CCCAAGUC	13398	GCAUUGGG GCCGAAAGGCGAGUGAGGUCU	UCACAAGA	31773
9303	1727	AGCCCAAU G CUAUCACA	13399	UGUGAUAG GCCGAAAGGCGAGUGAGGUCU	AUUGGGCU	31774
9316	1714	CACAGACU G CUUCGUGG	13400	CCACGAAG GCCGAAAGGCGAGUGAGGUCU	GUUAAUGG	31775
9321	1709	ACUGCUUC G UGGCGUGU	13401	ACACGCCA GCCGAAAGGCGAGUGAGGUCU	GAAGCAGU	31776
9324	1706	GCUUCGUG G CGUGUGGU	13402	ACCACACG GCCGAAAGGCGAGUGAGGUCU	CACGAAGC	31777
9326	1704	UUCGUGGC G UGUGGUUC	13403	GAACCACA GCCGAAAGGCGAGUGAGGUCU	GCCACGAA	31778
9328	1702	CGUGGCGU G UGGUUCUC	13404	AGGAACCA GCCGAAAGGCGAGUGAGGUCU	ACGCCACG	31779
9331	1699	GGCGUGUG G UUCUCUAA	13405	UUGAGGAA GCCGAAAGGCGAGUGAGGUCU	CACACGCC	31780
9351	1679	CCAUUAAC G UCUCUCUG	13406	CAGAGAGA GCCGAAAGGCGAGUGAGGUCU	GUUAAUGG	31781
9359	1671	GUCUCUCU G UUCUCUCC	13407	UGGAGGAA GCCGAAAGGCGAGUGAGGUCU	AGAGAGAC	31782
9372	1658	UCCACACA G UACUCCA	13408	UGGAAGUA GCCGAAAGGCGAGUGAGGUCU	UGUGUGGA	31783
9381	1649	UACUCCA G CACUGCUC	13409	GAGCAGUG GCCGAAAGGCGAGUGAGGUCU	UGGAAGUA	31784
9386	1644	CCAGCACU G CUCCAAGG	13410	CCUUGGAG GCCGAAAGGCGAGUGAGGUCU	AGUGCUGG	31785
9398	1632	CAGGGAG G UUGAGGUC	13411	GACCUCAA GCCGAAAGGCGAGUGAGGUCU	CUCCCUUG	31786
9404	1626	AGGUUGAG G UCCAUGAA	13412	UUCAUGGA GCCGAAAGGCGAGUGAGGUCU	CUCAACCU	31787
9435	1595	CCAAGAAG G UCUTUGUU	13413	AACAAAGA GCCGAAAGGCGAGUGAGGUCU	GUUCUUGG	31788
9441	1589	ACGUCUUU G UUCAACA	13414	UGUUGGAA GCCGAAAGGCGAGUGAGGUCU	AAAGACGU	31789
9450	1580	UUCAACA G UCAUCACG	13415	CGUGAUGA GCCGAAAGGCGAGUGAGGUCU	UGUUGGAA	31790
9458	1572	GUCAUCAC G UAGUAUGC	13416	GCAUACUA GCCGAAAGGCGAGUGAGGUCU	GUGAUGAC	31791
9461	1569	AUCACGUA G UAUGCAUU	13417	AAUGCAUA GCCGAAAGGCGAGUGAGGUCU	UACUGUAU	31792
9465	1565	CGUAGUUA G CAUUGGUG	13418	CACCAAUG GCCGAAAGGCGAGUGAGGUCU	AUACUACG	31793
9471	1559	AUGCAUUG G UGUCAAUC	13419	GAUUGACA GCCGAAAGGCGAGUGAGGUCU	CAAUUCAU	31794
9473	1557	GCAUUGGU G UCAAUCCC	13420	GGGAUUGA GCCGAAAGGCGAGUGAGGUCU	ACCAAUGC	31795
9487	1543	CCCUGACC G UGGUUCAC	13421	GUGAACCA GCCGAAAGGCGAGUGAGGUCU	GGUCAGGG	31796
9490	1540	UGACCGUG G UUCACAGU	13422	ACUGUGAA GCCGAAAGGCGAGUGAGGUCU	CACGUGCA	31797
9497	1533	GGUUCACA G UCCACUGU	13423	ACAGUGGA GCCGAAAGGCGAGUGAGGUCU	UGUGAACC	31798
9504	1526	AGUCCACU G UCACCUCU	13424	AGAGGUGA GCCGAAAGGCGAGUGAGGUCU	AGUGACAU	31799
9526	1504	UUCUCCAA G CUUAGUG	13425	CACUAAAG GCCGAAAGGCGAGUGAGGUCU	UUGGAGAA	31800
9532	1498	AAGCUUUA G UGUUAUG	13426	CAUACACA GCCGAAAGGCGAGUGAGGUCU	UAAAGCUU	31801
9534	1496	GCUUUAGU G UGUUAUGA	13427	UUCAUACA GCCGAAAGGCGAGUGAGGUCU	ACUAAAGC	31802
9536	1494	UUUAGUGU G UAUGAAGG	13428	CCUUCAUA GCCGAAAGGCGAGUGAGGUCU	ACACUAAA	31803
9544	1486	GUUUGAAG G CGCGCAG	13429	CUGCGGCG GCCGAAAGGCGAGUGAGGUCU	CUUCAUAC	31804
9546	1484	AUGAAGGC G CCGCAGGA	13430	UCCUGCGG GCCGAAAGGCGAGUGAGGUCU	GCCUUCAU	31805
9549	1481	AAGGCGCC G CAGGAGUG	13431	CACUCUUG GCCGAAAGGCGAGUGAGGUCU	GGCGCCUU	31806
9555	1475	CCGCAGGA G UGAUGCUG	13432	CAGCAUCA GCCGAAAGGCGAGUGAGGUCU	UCCUGCGG	31807
9560	1470	GGAGUGAU G CUGAAUCU	13433	AGAUUCAG GCCGAAAGGCGAGUGAGGUCU	AUCACUCC	31808
9573	1457	AUCUCCCU G CCUGAGUG	13434	CACUCAGG GCCGAAAGGCGAGUGAGGUCU	AGGGAGAU	31809
9579	1451	CUGCCUGA G UGGCUCCA	13435	UGGAGCCA GCCGAAAGGCGAGUGAGGUCU	UCAGGCAG	31810
9582	1448	CCUGAGUG G CUCCAACC	13436	GGUUGGAG GCCGAAAGGCGAGUGAGGUCU	CACUCAGG	31811
9592	1438	UCCAACCU G UGUGGAGU	13437	ACUCCACA GCCGAAAGGCGAGUGAGGUCU	AGGUGGGA	31812
9594	1436	CAACCUGU G UGGAGUAG	13438	CUACUCCA GCCGAAAGGCGAGUGAGGUCU	ACAGGUUG	31813
9599	1431	UGUGUGGA G UAGUUUCC	13439	GGAAACUA GCCGAAAGGCGAGUGAGGUCU	UCCACACA	31814
9602	1428	GUGGAGUA G UUUCGUG	13440	CACGGAAA GCCGAAAGGCGAGUGAGGUCU	UACUCCAC	31815
9608	1422	UAGUUUCC G UGCACUC	13441	GAGUCGCA GCCGAAAGGCGAGUGAGGUCU	GGAAACUA	31816
9610	1420	GUUUCCGU G CGACUCCA	13442	UGGAGUCG GCCGAAAGGCGAGUGAGGUCU	ACGGAAC	31817
9621	1409	ACUCCACA G UAGUUGGU	13443	ACCAACUA GCCGAAAGGCGAGUGAGGUCU	UGUGGAGU	31818
9624	1406	CCACAGUA G UUGGUCCA	13444	UGGACCAA GCCGAAAGGCGAGUGAGGUCU	UACUGUGG	31819
9628	1402	AGUAGUUG G UCCAUGGA	13445	UCCAUGGA GCCGAAAGGCGAGUGAGGUCU	CAACUACU	31820

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9645	1385	CAAAAUG G CCACUUCG	13446	CGAAGUGG GCCGAAAGGCGAGUGAGGUCU	CAUUUUUG	31821
9653	1377	GCCACUUC G UACUUGAU	13447	AUCAAGUA GCCGAAAGGCGAGUGAGGUCU	GAAGUGGC	31822
9678	1352	UCAAGAUG G UUCUUCU	13448	AGGAAGAA GCCGAAAGGCGAGUGAGGUCU	CAUCUUGA	31823
9690	1340	UUCCUAUU G CCUUGGUA	13449	UACCAAGG GCCGAAAGGCGAGUGAGGUCU	AAUAGGAA	31824
9696	1334	UUGCCUUG G UAGAGCAG	13450	CUGCUCUA GCCGAAAGGCGAGUGAGGUCU	CAAGGCAA	31825
9701	1329	UUGGUAGA G CAGGCAAA	13451	UUUGCCUG GCCGAAAGGCGAGUGAGGUCU	UCUACCAA	31826
9705	1325	UAGAGCAG G CAAAUUUG	13452	CAAAUUUG GCCGAAAGGCGAGUGAGGUCU	CUGCUCUA	31827
9714	1316	CAAAUUUG G CGCAUGUG	13453	CACAUGCG GCCGAAAGGCGAGUGAGGUCU	CAAAUUUG	31828
9716	1314	AAUUUGGC G CAUGUGUC	13454	GACACAUG GCCGAAAGGCGAGUGAGGUCU	GCCAAAUU	31829
9720	1310	UGGCGCAU G UGUCAAUG	13455	CAUUGACA GCCGAAAGGCGAGUGAGGUCU	AUGCGCCA	31830
9722	1308	GCGCAUGU G UCAAUGCU	13456	AGCAUUGA GCCGAAAGGCGAGUGAGGUCU	ACAUCGCG	31831
9728	1302	GUUGCAAU G CUUCCUUU	13457	AAAGGAAG GCCGAAAGGCGAGUGAGGUCU	AUUGACAC	31832
9737	1293	CUUCCUUU G CCAAUAUA	13458	UUAUUUGG GCCGAAAGGCGAGUGAGGUCU	AAAGGAAG	31833
9749	1281	AAUAUCC G CAGCCGUU	13459	AACGGCUG GCCGAAAGGCGAGUGAGGUCU	GGAUUUUU	31834
9752	1278	AAUCCGCA G CCGUUGCC	13460	GGCAACGG GCCGAAAGGCGAGUGAGGUCU	UGCGGAUU	31835
9755	1275	CCGCAGCC G UUGCCCCA	13461	UGGGGCAA GCCGAAAGGCGAGUGAGGUCU	GGCUGCGG	31836
9758	1272	CAGCCGUU G CCCCAGCC	13462	GGCUGGGG GCCGAAAGGCGAGUGAGGUCU	AACGGCUG	31837
9764	1266	UUGCCCCA G CCCCUGUC	13463	GACAGGGG GCCGAAAGGCGAGUGAGGUCU	UGGGGCAA	31838
9770	1260	CAGCCCCU G UCCACCAC	13464	GUGGUGGA GCCGAAAGGCGAGUGAGGUCU	AGGGGCGG	31839
9784	1246	CACUCCUU G UCUGCACA	13465	UGUGCAGA GCCGAAAGGCGAGUGAGGUCU	AAGGAGUG	31840
9788	1242	CCUUGUCU G CACACAAA	13466	UUUGUGUG GCCGAAAGGCGAGUGAGGUCU	AGACAAGG	31841
9798	1232	ACACAAA G CUGGGUCA	13467	UGACCCAG GCCGAAAGGCGAGUGAGGUCU	UUUUGUGU	31842
9803	1227	AAAGCUGG G UCAGCACG	13468	CGUGCUGA GCCGAAAGGCGAGUGAGGUCU	CACGCUUU	31843
9807	1223	CUGGGUCA G CACGUUUG	13469	CAAAACUG GCCGAAAGGCGAGUGAGGUCU	UGACCCAG	31844
9811	1219	GUCAGCAC G UUUGUCAU	13470	AUGACAAA GCCGAAAGGCGAGUGAGGUCU	GUGCUGAC	31845
9815	1215	GCACGUUU G UCAUUGUG	13471	CACAAUGA GCCGAAAGGCGAGUGAGGUCU	AAACGUGC	31846
9821	1209	UUUGCAUU G UGAGCUUC	13472	GAAGCUCU GCCGAAAGGCGAGUGAGGUCU	AAUGACAA	31847
9825	1205	CAUUGUGA G CUUCUCCC	13473	GGGAGAAG GCCGAAAGGCGAGUGAGGUCU	UCACAAUG	31848
9837	1193	CUCCCAUG G UCGGCGAC	13474	GUGCCCGA GCCGAAAGGCGAGUGAGGUCU	UGGGGAG	31849
9842	1188	AUGGUCGG G CACGCAGC	13475	GCUGCGUG GCCGAAAGGCGAGUGAGGUCU	CCGACCAU	31850
9846	1184	UCGGGCAC G CAGCUUUG	13476	CAAAGCUG GCCGAAAGGCGAGUGAGGUCU	GUGCCCGA	31851
9849	1181	GGCAGCGA G CUUUGGUG	13477	CACCAAAG GCCGAAAGGCGAGUGAGGUCU	UGCGUGCC	31852
9855	1175	CAGCUUUG G UGGAGAGA	13478	UCUCUCCA GCCGAAAGGCGAGUGAGGUCU	CAAAGCUG	31853
9866	1164	GAGAGAUC G CUGACGGU	13479	ACCUGACG GCCGAAAGGCGAGUGAGGUCU	GAUCUCUC	31854
9873	1157	CGUGACG G UAGCCAAA	13480	UUUGCCUA GCCGAAAGGCGAGUGAGGUCU	CGUCACGC	31855
9876	1154	UGACGGUA G CCAAUAUG	13481	CUAUUUGG GCCGAAAGGCGAGUGAGGUCU	UACCGUCA	31856
9884	1146	GCCAAUA G CAAUAACU	13482	AGUUAUUG GCCGAAAGGCGAGUGAGGUCU	UAUUUGGC	31857
9893	1137	CAUAACU G CGGACCUC	13483	GAGGUCCG GCCGAAAGGCGAGUGAGGUCU	AGUUAUUG	31858
9903	1127	GGACCUCU G CCAGGUUG	13484	CAACCUGG GCCGAAAGGCGAGUGAGGUCU	AGAGGUCC	31859
9908	1122	UCUGCCAG G UUGACCGC	13485	CGCGUCA G GCCGAAAGGCGAGUGAGGUCU	CUGGCAGA	31860
9915	1115	GGUUGACC G CCUCCAUA	13486	UAUGGAGG GCCGAAAGGCGAGUGAGGUCU	GGUCAACC	31861
9945	1085	CAUCGAUG G UAGGCUUG	13487	CAAGCCUA GCCGAAAGGCGAGUGAGGUCU	CAUCGAUG	31862
9949	1081	GAUGGUAG G CUUGUCCU	13488	AGGACAAG GCCGAAAGGCGAGUGAGGUCU	CUACCAUC	31863
9953	1077	GUAGGCUU G UCCUAGA	13489	UCUAAGGA GCCGAAAGGCGAGUGAGGUCU	AAGCCUAC	31864
9969	1061	ACAUGAUA G UCACGCAG	13490	CUGCGUGA GCCGAAAGGCGAGUGAGGUCU	UAUCAUGU	31865
9974	1056	AUAGUCAC G CAGCUGUC	13491	GACAGCUG GCCGAAAGGCGAGUGAGGUCU	GUGACUUA	31866
9977	1053	GUCACGCA G CUGUCGCC	13492	GGCGACAG GCCGAAAGGCGAGUGAGGUCU	UGCGUGAC	31867
9980	1050	ACGCAGCU G UCGCCUUC	13493	GAAGGCGA GCCGAAAGGCGAGUGAGGUCU	AGCUGCGU	31868
9983	1047	CAGCUGUC G CCUUCGAG	13494	CUCGAAGG GCCGAAAGGCGAGUGAGGUCU	GACAGCUG	31869
10008	1022	CCACCCAU G UUGCUGCA	13495	UGGAGCAA GCCGAAAGGCGAGUGAGGUCU	AUGGGUGG	31870
10011	1019	CCCAUGUU G CUCCAGAC	13496	GUCUGGAG GCCGAAAGGCGAGUGAGGUCU	AACAUGGG	31871
10034	996	UCCAAGAA G UCUCUGUU	13497	AACAGAGA GCCGAAAGGCGAGUGAGGUCU	UUCUUGGA	31872
10040	990	AAGUCUCU G UUGCUCAU	13498	AUGAGCAA GCCGAAAGGCGAGUGAGGUCU	UAACGACU	31873
10043	987	UCUCUGUU G CUCAUCC	13499	GGAUUGAG GCCGAAAGGCGAGUGAGGUCU	AACAGAGA	31874
10055	975	AUUCCAAG G CAGUUGAA	13500	UUCAACUG GCCGAAAGGCGAGUGAGGUCU	CUUGGAAU	31875
10058	972	CCAAGGCA G UUGAAGCU	13501	AGCUUCAA GCCGAAAGGCGAGUGAGGUCU	UGCCUUGG	31876
10064	966	CAGUUGAA G CUGUAAGC	13502	GCUUACAG GCCGAAAGGCGAGUGAGGUCU	UUCAAACU	31877
10067	963	UUGAAGCU G UAAGCUGG	13503	CCAGCUUA GCCGAAAGGCGAGUGAGGUCU	AGCUUCAA	31878
10071	959	AGCUGUAA G CUGGGGCC	13504	GGCCCCAG GCCGAAAGGCGAGUGAGGUCU	UUACGACU	31879
10077	953	AAGCUGGG G CCACCAAA	13505	UUUGGUGG GCCGAAAGGCGAGUGAGGUCU	CCCAGCUU	31880
10087	943	CACCAAAA G CAUAAGCA	13506	UGCUAUUG GCCGAAAGGCGAGUGAGGUCU	UUUUGGUG	31881
10093	937	AAGCAAUA G CACGACAA	13507	UUGUCGUG GCCGAAAGGCGAGUGAGGUCU	UAUUGCUU	31882

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10114	916	AACUCUCU G CAUGGUGU	13508	ACACCAUG GCCGAAAGGCGAGUGAGGUCU	AGAGAGUU	31883
10119	911	UCUGCAUG G UGUUGCUC	13509	GAGCAACA GCCGAAAGGCGAGUGAGGUCU	CAUGCAGA	31884
10121	909	UGCAUGGU G UUGCUCUCC	13510	GGGAGCAA GCCGAAAGGCGAGUGAGGUCU	ACCAUGCA	31885
10124	906	AUGGUGUU G CUCCCAAG	13511	CUUGGGAG GCCGAAAGGCGAGUGAGGUCU	AACACCAU	31886
10132	898	GCUCCCAA G CAUCCAAC	13512	GUUGGAUG GCCGAAAGGCGAGUGAGGUCU	UUGGGAGC	31887
10149	881	CAUUGACG G CUGCCACC	13513	GGUGGCAG GCCGAAAGGCGAGUGAGGUCU	CGUCAUUG	31888
10152	878	UGACGGCU G CCACCAGG	13514	CCUGGUGG GCCGAAAGGCGAGUGAGGUCU	AGCCGUCA	31889
10161	869	CCACCAGG G CAUAUCCA	13515	UGGAUAUG GCCGAAAGGCGAGUGAGGUCU	CCUGGUGG	31890
10172	858	UAUCCAGG G UUCUCAA	13516	UUGAGGAA GCCGAAAGGCGAGUGAGGUCU	CCUGGAUA	31891
10194	836	AUGAUUUU G UUUUACC	13517	GGUAAAAA GCCGAAAGGCGAGUGAGGUCU	AQAUAUAI	31892
10212	818	AAUACCUU G UGGCCUUG	13518	CAAGGCCA GCCGAAAGGCGAGUGAGGUCU	AAGGUAAU	31893
10215	815	ACCUUGUG G CCUUGGUG	13519	CACCAAGG GCCGAAAGGCGAGUGAGGUCU	CACAAGGU	31894
10221	809	UGGCCUUG G UGCUGUCC	13520	GGACAGCA GCCGAAAGGCGAGUGAGGUCU	CAAGGCCA	31895
10223	807	GCCUUGGU G CUGUCCAU	13521	AUGGACAG GCCGAAAGGCGAGUGAGGUCU	ACCAAGGC	31896
10226	804	UUGGUGCU G UCCAUCCA	13522	UGGAUGGA GCCGAAAGGCGAGUGAGGUCU	AGCACCAA	31897
10236	794	CCAUCCAA G CCCCUUC	13523	GAAGGGGG GCCGAAAGGCGAGUGAGGUCU	UUGGAUUG	31898
10247	783	CCUUCUUU G UUCGUAG	13524	CUAGCGAA GCCGAAAGGCGAGUGAGGUCU	AAGAAGGG	31899
10251	779	UCUUGUUC G CUAGAGUG	13525	CACUCUAG GCCGAAAGGCGAGUGAGGUCU	CACAAGA	31900
10257	773	UCGUAGA G UGCUUUCU	13526	AGAAAGCA GCCGAAAGGCGAGUGAGGUCU	UCUAGCGA	31901
10259	771	GCUAGAGU G CUUUCUCC	13527	GGAGAAAG GCCGAAAGGCGAGUGAGGUCU	ACUCUAGC	31902
10268	762	CUUUCUCC G UGUGUCUG	13528	CAGACACA GCCGAAAGGCGAGUGAGGUCU	GGAGAAAG	31903
10270	760	UUCUCCGU G UGUCUGCA	13529	UGCAGACA GCCGAAAGGCGAGUGAGGUCU	ACGGAGAA	31904
10272	758	CUCCGUGU G UCUGCACU	13530	AGUGCAGA GCCGAAAGGCGAGUGAGGUCU	ACACGGAG	31905
10276	754	GUGUGUCU G CACUGUCA	13531	UGACAGUG GCCGAAAGGCGAGUGAGGUCU	AGACACAC	31906
10281	749	UCUGCACU G UCAGUGAC	13532	GUCACUGA GCCGAAAGGCGAGUGAGGUCU	AGUGCAGA	31907
10285	745	CACUGUCA G UGACCUCC	13533	GGAGGUCA GCCGAAAGGCGAGUGAGGUCU	UGACAGUG	31908
10298	732	CUCCGACU G CGUCUUGA	13534	UCAAGACG GCCGAAAGGCGAGUGAGGUCU	AGUCGGAG	31909
10300	730	CCGACUGC G UCUCUGAGU	13535	ACUCAAGA GCCGAAAGGCGAGUGAGGUCU	GCAGUCGG	31910
10307	723	CGUCUUGA G UGGCGUGU	13536	ACACGCCA GCCGAAAGGCGAGUGAGGUCU	UCAAGACG	31911
10310	720	CUUGAGUG G CGUGUCUU	13537	AAGACACG GCCGAAAGGCGAGUGAGGUCU	CACUCAAG	31912
10312	718	UGAGUGGC G UGUCUUGG	13538	CCAAGACA GCCGAAAGGCGAGUGAGGUCU	GCCACUCA	31913
10314	716	AGUGGCGU G UCUGGUG	13539	CACCAAGA GCCGAAAGGCGAGUGAGGUCU	ACGCCACU	31914
10320	710	GUGUCUUG G UGCAUUCU	13540	AAGAUGCA GCCGAAAGGCGAGUGAGGUCU	CAAGACAC	31915
10322	708	GUCUUGGU G CAUCUUC	13541	GGAAGAU GCCGAAAGGCGAGUGAGGUCU	ACCAAGAC	31916
10340	690	UACCUAGC G UAGACUGC	13542	GCAGUCUA GCCGAAAGGCGAGUGAGGUCU	GUCAGGUA	31917
10347	683	CGUAGACU G CUGACUUU	13543	AAAGUCAG GCCGAAAGGCGAGUGAGGUCU	AGUCUACG	31918
10356	674	CUGACUUU G UGCACCAA	13544	UUGGUGCA GCCGAAAGGCGAGUGAGGUCU	AAAGUCAG	31919
10358	672	GACUUGU G CACCAACA	13545	UGUUGGUG GCCGAAAGGCGAGUGAGGUCU	ACAAAGUC	31920
10367	663	CACCAACA G UCGAUGUC	13546	GACAUCCA GCCGAAAGGCGAGUGAGGUCU	UGUUGGUG	31921
10373	657	CAGUCGAU G UCUCUGG	13547	CCAGAAGA GCCGAAAGGCGAGUGAGGUCU	AUGCAGUC	31922
10392	638	CAUUAACA G CCGACAGC	13548	GCUGUCGG GCCGAAAGGCGAGUGAGGUCU	UGGUAUUG	31923
10399	631	AGCCGACA G CACUGGGC	13549	GCCCAGUG GCCGAAAGGCGAGUGAGGUCU	UGUCGGCU	31924
10406	624	AGCACUGG G CAUUCAUA	13550	UAUGAAUG GCCGAAAGGCGAGUGAGGUCU	CCAGUGCU	31925
10416	614	AUUAUAA G UGAUAGUA	13551	UACUAUCA GCCGAAAGGCGAGUGAGGUCU	UUAUGAAU	31926
10422	608	AAGUGAUA G UAUAUCG	13552	CGAUGAUA GCCGAAAGGCGAGUGAGGUCU	UAUCAUUC	31927
10430	600	GUUAUCAU G CACAUGUA	13553	UACAUGUG GCCGAAAGGCGAGUGAGGUCU	GAUGAUAC	31928
10436	594	UCGCACAU G UAUCCAC	13554	GUGGGAUA GCCGAAAGGCGAGUGAGGUCU	AUGUGCGA	31929
10452	578	CAUCCAUA G CUCUGACA	13555	UGUCAGAG GCCGAAAGGCGAGUGAGGUCU	AAUGGAUG	31930
10463	567	CUGACAAU G CAUAGGUU	13556	AACCUAUG GCCGAAAGGCGAGUGAGGUCU	AUUGUCAG	31931
10469	561	AUGCAUAG G UUCUUUCC	13557	GGAAAGAA GCCGAAAGGCGAGUGAGGUCU	CUAUGCAU	31932
10479	551	UCUUUCCA G CAGCUGU	13558	AACAGCUG GCCGAAAGGCGAGUGAGGUCU	UGGAAAGA	31933
10482	548	UUCAGCA G CUGUUGGA	13559	UCCAACAG GCCGAAAGGCGAGUGAGGUCU	UGCUGGAA	31934
10485	545	CAGCAGCU G UUGGAAUC	13560	GAUUCCAA GCCGAAAGGCGAGUGAGGUCU	AGCUGCUG	31935
10494	536	UUGGAAUC G UGAUGACA	13561	UGUCAUCA GCCGAAAGGCGAGUGAGGUCU	GAUUCCAA	31936
10506	524	UGACAUCU G UGACGUCA	13562	UGACGUCA GCCGAAAGGCGAGUGAGGUCU	AGAUGUCA	31937
10511	519	UCUGUGAC G UCAGUAGC	13563	GCUAUCUA GCCGAAAGGCGAGUGAGGUCU	GUCACAGA	31938
10515	515	UGACGUCA G UAGCAUUU	13564	AAAUUGCU GCCGAAAGGCGAGUGAGGUCU	UGACGUCA	31939
10518	512	CGUCAGUA G CAUUUACC	13565	GGUAAAUG GCCGAAAGGCGAGUGAGGUCU	UACUGACG	31940
10527	503	CAUUUACC G UCAUCAUC	13566	GAUGAUGA GCCGAAAGGCGAGUGAGGUCU	GGUAAAUG	31941
10550	480	CCUUGGAA G UUAGAGAG	13567	CUCUCUAA GCCGAAAGGCGAGUGAGGUCU	UUCCAAAG	31942
10560	470	UAGAGAGG G UACUGUCU	13568	AGCAGUUA GCCGAAAGGCGAGUGAGGUCU	CCUCUCUA	31943
10566	464	GGGUAAAU G CUCCUACG	13569	CGUAGGAG GCCGAAAGGCGAGUGAGGUCU	AGUUACCC	31944

Table X

10574	456	GCUCCUAC G CUGGCGAU	13570	AUCGCCAG GCCGAAAGGCGAGUGAGGUCU	GUAGGAGC	31945
10578	452	CUACGCU G CGAUCAGG	13571	CCUGAUCG GCCGAAAGGCGAGUGAGGUCU	CAGCGUAG	31946
10586	444	GCGAUCAG G CCAAUCAU	13572	AUGAUUGG GCCGAAAGGCGAGUGAGGUCU	CUGAUCGC	31947
10599	431	UCAUGACU G CAAUCCG	13573	CGGAAUUG GCCGAAAGGCGAGUGAGGUCU	AGUCAUGA	31948
10608	422	CAAUCCG G UCUUCCU	13574	AGGAAAGA GCCGAAAGGCGAGUGAGGUCU	CGGAAUUG	31949
10630	400	UUUCUUU G UUUUGAGC	13575	GCUCAAA GCCGAAAGGCGAGUGAGGUCU	AAAAGAAA	31950
10637	393	UGUUUGA G CUCCGCCG	13576	CGGCGGAG GCCGAAAGGCGAGUGAGGUCU	UCAAACA	31951
10642	388	UGAGCUCC G CCGAUUGA	13577	UCAUCCG GCCGAAAGGCGAGUGAGGUCU	GGAGCUCA	31952
10653	377	GAUUGAUA G CACUGGUC	13578	GACCAUG GCCGAAAGGCGAGUGAGGUCU	UAUCAUUC	31953
10659	371	UAGCACUG G UCAAGGUC	13579	GACCUUGA GCCGAAAGGCGAGUGAGGUCU	CAGUGCUA	31954
10665	365	UGGUCAAG G UCCCUAGU	13580	ACUAGGGA GCCGAAAGGCGAGUGAGGUCU	CUUGACCA	31955
10672	358	GGUCCUA G UUCUUUCU	13581	AGAAGGAA GCCGAAAGGCGAGUGAGGUCU	UAGGACC	31956
10694	336	CUCAGAAG G UGUUUAU	13582	AUGAAACA GCCGAAAGGCGAGUGAGGUCU	CUUCUGAG	31957
10696	334	CAGAAGG G UUUCAUCG	13583	CGAUGAAA GCCGAAAGGCGAGUGAGGUCU	ACCUUCUG	31958
10704	326	GUUUCADC G CUGUUUGU	13584	ACAAACAG GCCGAAAGGCGAGUGAGGUCU	GAUGAAAC	31959
10707	323	UCAUCGCU G UUUUUUG	13585	CAAACAAA GCCGAAAGGCGAGUGAGGUCU	AGCGAUGA	31960
10711	319	CGCUGUUU G UUUUGUA	13586	UGAACAAA GCCGAAAGGCGAGUGAGGUCU	AAACAGCG	31961
10715	315	GUUUGUUU G UUCACACC	13587	GGUGUGAA GCCGAAAGGCGAGUGAGGUCU	AAACAAAC	31962
10738	292	UCGAUCCA G CACUGCUC	13588	GAGCAGUG GCCGAAAGGCGAGUGAGGUCU	UCGAUCCA	31963
10743	287	CCAGCACU G CUCGGGUC	13589	GACCCGAG GCCGAAAGGCGAGUGAGGUCU	AGUGCUGG	31964
10749	281	CUGCUCGG G UCGGAGCA	13590	UGCUCGGA GCCGAAAGGCGAGUGAGGUCU	CCGAGCAG	31965
10755	275	GGGUCGGA G CAAUUGCU	13591	AGCAAUUG GCCGAAAGGCGAGUGAGGUCU	UCCGACCC	31966
10761	269	GAGCAAU G CUGUGAAC	13592	GUUCACAG GCCGAAAGGCGAGUGAGGUCU	AAUUGCUC	31967
10764	266	CAAUUGCU G UGAACCG	13593	CAGGUUCA GCCGAAAGGCGAGUGAGGUCU	AGCAAUUG	31968
10779	251	UGAAGAAC G CCAAGAGA	13594	UCUCUUGG GCCGAAAGGCGAGUGAGGUCU	GUUCUUA	31969
10788	242	CCAAGAGA G CCAACACA	13595	UGUGUUUG GCCGAAAGGCGAGUGAGGUCU	UCUCUUGG	31970
10801	229	CACAAUUC G UAUUGGCC	13596	GGCCAAUA GCCGAAAGGCGAGUGAGGUCU	GAUUUUG	31971
10807	223	UCGUUUG G CCCUUGC	13597	GCAAGGGG GCCGAAAGGCGAGUGAGGUCU	CAUAACGA	31972
10814	216	GGCCCUU G CCGUCGAU	13598	AUCGACGG GCCGAAAGGCGAGUGAGGUCU	AAGGGGCC	31973
10817	213	CCCUUGCC G UCGAUCAG	13599	CUGAUCGA GCCGAAAGGCGAGUGAGGUCU	GGCAAGGG	31974
10826	204	UCGAUCAG G CUCAACAU	13600	AUGUUGAG GCCGAAAGGCGAGUGAGGUCU	CUGAUCGA	31975
10836	194	UCAACAU G CCCUUCU	13601	GAAGAGGG GCCGAAAGGCGAGUGAGGUCU	UAUGUUGA	31976
10846	184	CCUCUUA G UCCAUAU	13602	UGAUUGGA GCCGAAAGGCGAGUGAGGUCU	UGAAGAGG	31977
10865	165	GACAACAC G CGGGCAU	13603	AUGCCCCG GCCGAAAGGCGAGUGAGGUCU	GUGUUGUC	31978
10870	160	CACGCGGG G CAUCCGC	13604	GCGGAAUG GCCGAAAGGCGAGUGAGGUCU	CCCGGUG	31979
10877	153	GGCAUUC G CGUUUAG	13605	CUAAAACG GCCGAAAGGCGAGUGAGGUCU	GGAAUGCC	31980
10879	151	CAUCCGC G UUUUAGCA	13606	UGCUAAAA GCCGAAAGGCGAGUGAGGUCU	GCGGAAUG	31981
10885	145	GGGUUUA G CAUAUGA	13607	UCAUAUUG GCCGAAAGGCGAGUGAGGUCU	UAAAACGC	31982
10896	134	UAUUGACA G CCCGUCU	13608	GAGCCGGG GCCGAAAGGCGAGUGAGGUCU	UGUCAUA	31983
10901	129	ACAGCCCG G CUCUUGCC	13609	GGCAAGAG GCCGAAAGGCGAGUGAGGUCU	CGGGCUGU	31984
10907	123	CGGCUUUG G CCGGGCC	13610	GGGCCCGG GCCGAAAGGCGAGUGAGGUCU	AAGGCCG	31985
10912	118	CUUGCCGG G CCCUCCUG	13611	CAGGAGGG GCCGAAAGGCGAGUGAGGUCU	CCGGCAAG	31986
10921	109	CCCUCCUG G UUUUUAG	13612	CUAAGAAA GCCGAAAGGCGAGUGAGGUCU	CAGGAGGG	31987
10944	86	AGAUCUUC G UGCUAAGA	13613	UCUUAGCA GCCGAAAGGCGAGUGAGGUCU	GAAGAUCU	31988
10946	84	AUCUUCU G CUAAGAAA	13614	UUUCUUG GCCGAAAGGCGAGUGAGGUCU	ACGAAGAU	31989
10957	73	AAGAAACA G CUCGCACU	13615	AGUGCGAG GCCGAAAGGCGAGUGAGGUCU	UGUUUCU	31990
10961	69	AACAGCUC G CACUGUGU	13616	ACACAGUG GCCGAAAGGCGAGUGAGGUCU	GAGCUGU	31991
10966	64	CUCGCACU G UGUUAAU	13617	AAUUAACA GCCGAAAGGCGAGUGAGGUCU	AGUGCGAG	31992
10968	62	CGCACUGU G UUAUUGU	13618	ACAAUUA GCCGAAAGGCGAGUGAGGUCU	ACAGUGCG	31993
10975	55	UGUAAAU G UUGUAAU	13619	AUUAACAA GCCGAAAGGCGAGUGAGGUCU	AAUUAACA	31994
10978	52	UAAUUGU G UUAUCCU	13620	AGGAUUA GCCGAAAGGCGAGUGAGGUCU	AACAAUA	31995
11002	28	ACUACUA G UUUUGCAG	13621	CUGACAAA GCCGAAAGGCGAGUGAGGUCU	UUAGUAGU	31996
11006	24	CUAAGUU G UCAGCUCA	13622	UGAGCUGA GCCGAAAGGCGAGUGAGGUCU	AAACUAG	31997
11010	20	GUUUGUA G CUCACACA	13623	UGUGUGAG GCCGAAAGGCGAGUGAGGUCU	UGACAAAC	31998
11020	10	UCACACAG G CGAACUAC	13624	GUAGUUCG GCCGAAAGGCGAGUGAGGUCU	CUGUGUGA	31999

Input Sequence = AF196835_rc. Cut Site = G/Y

Arm Length = 8. Core Sequence = GCCGAAAGGCGAGUCAAGGUCU

AF196835_rc reverse complement of West Nile virus strain NY99-flamingo382-99, complete genome

Table XI: WNV minus strand DNzyme and Target Sequence

Pos	Pos (+str)	Substrate	Seq ID	DNzyme Sequence	Seq ID
88	10942	CCUAGUCU A UCCAGGU	7383	ACCTGGGA GGCTAGCTACAACGA AGACTAGG	32000
103	10927	GUGUCAAU A UGCUGUUU	7386	AAACAGCA GGCTAGCTACAACGA ATTGACAC	32001
169	10861	CCUGACCU A CAGCUUCA	7402	TGAAGCTG GGCTAGCTACAACGA AGGTCAGG	32002
253	10777	ACACCAUU A CCGGGGCU	7422	AGCCCGG GGCTAGCTACAACGA AATGGTGT	32003
316	10714	GGGGCACU A UCGCAGAC	7433	GTCTGCGA GGCTAGCTACAACGA AGTGCCCC	32004
381	10649	UUGAAGUU A CAACAUGU	7444	ACATGTTG GGCTAGCTACAACGA AACTTCAA	32005
423	10607	GAGGGCUU A CAUGGAUC	7452	GATCCATG GGCTAGCTACAACGA AAGCCCTC	32006
489	10541	CACCGUCU A CUCAACUU	7465	AAGTTGAG GGCTAGCTACAACGA AGACGGTG	32007
549	10481	UCUUAACU A UUUACACU	7482	AGTGTAAG GGCTAGCTACAACGA AGTTAAGA	32008
553	10477	AACUAUUU A CACUAACA	7485	TGTTAGTG GGCTAGCTACAACGA AATAGTTT	32009
571	10459	CACUAAAU A CUACUAUA	7488	TATAGTAG GGCTAGCTACAACGA ATTAGTGT	32010
574	10456	UAAAUACU A CUUAUAAA	7489	TTTTATAG GGCTAGCTACAACGA AGTATTTA	32011
577	10453	AUACUACU A UAAAACUA	7490	TAGTTTAA GGCTAGCTACAACGA AGTAGTAT	32012
585	10445	AUAAAACU A CACUUUUA	7492	TAAAAGTG GGCTAGCTACAACGA AGTTTTAT	32013
593	10437	ACACUUUU A UGCAUACU	7496	AGTAGTGA GGCTAGCTACAACGA AAAAGTGT	32014
599	10431	UUAUGCAU A CUUAUAUU	7497	AATATAAG GGCTAGCTACAACGA ATGCATAA	32015
603	10427	GCAUACUU A UAUUGUCU	7499	AGACAATA GGCTAGCTACAACGA AAGTATGC	32016
605	10425	AUACUUAU A UUGUCUAU	7500	ATAGACAA GGCTAGCTACAACGA ATAAGTAT	32017
612	10418	UAUUGUCU A UUUACAAU	7503	ATTGTAAA GGCTAGCTACAACGA AGACAATA	32018
616	10414	GUCUAUUU A CAAUUGAU	7506	ATCAATTG GGCTAGCTACAACGA AAATAGAC	32019
630	10400	GAUUAUUU A UCUACAGU	7510	ACTGTAGA GGCTAGCTACAACGA ATTTAATC	32020
634	10396	AAAUUAUCU A CAGUACUG	7512	CAGTACTG GGCTAGCTACAACGA AGATATTT	32021
639	10391	UCUACAGU A CUGUGUCC	7513	GGACACAG GGCTAGCTACAACGA ACTGTAGA	32022
670	10360	GUCUUCU A UCUCUUUA	7520	TAAAGAGA GGCTAGCTACAACGA ATGAAGAC	32023
700	10330	AUCCACAU A CUUCUCAU	7529	ATGAGAAG GGCTAGCTACAACGA ATGTGGAT	32024
823	10207	UCCUGAAU A UGGGACGU	7555	ACGTCCCA GGCTAGCTACAACGA ATTCAGGA	32025
882	10148	UCUCCUCU A UCCAAACA	7575	TGTTTGGG GGCTAGCTACAACGA AGAGGAGA	32026
1039	9991	GUGGAAGU A CAGAAGCA	7600	TGCTTCTG GGCTAGCTACAACGA ACTTCCAC	32027
1116	9914	CUGGAGAU A UGCGAGCU	7609	AGCTCGCA GGCTAGCTACAACGA ATCTCCAG	32028
1131	9899	CUCUGCCU A CCAAUUCA	7611	TGAATTGG GGCTAGCTACAACGA AGGCAGAG	32029
1234	9796	CCAAUCAU A CCAUCCAG	7631	CTGGATGG GGCTAGCTACAACGA ATGATTGG	32030
1335	9695	GGGGCUUU A CCACACAG	7650	CTGTGTGG GGCTAGCTACAACGA AAAGCCCC	32031
2145	8885	CCUUUCUU A UGAAUUC	7816	GGAATTCA GGCTAGCTACAACGA AAGAAAGG	32032
2230	8800	GAGCACGU A CUUCACUC	7833	GAGTGAAG GGCTAGCTACAACGA ACGTGCTC	32033
2444	8586	CAGGUUCU A UAUGGGUG	7872	CACCCATA GGCTAGCTACAACGA AGAACCTG	32034
2446	8584	GGUUCUAU A UGGGUGGU	7873	ACCACCCA GGCTAGCTACAACGA ATGAAACC	32035
2482	8548	CGAACUGU A CUCACGCC	7879	GGCGTGAG GGCTAGCTACAACGA ACAGTTCT	32036
2519	8511	UUGAUUUU A CUGGUGUC	7891	GACACCAG GGCTAGCTACAACGA AAAATCAA	32037
2577	8453	CCAAGUUU A CAUCUUC	7904	GGAAGATG GGCTAGCTACAACGA AAAGTTGG	32038
2590	8440	UUCUCUGU A UUGGGGUC	7909	GACCCCAA GGCTAGCTACAACGA ACGAGGAA	32039
2648	8382	CUGGUCAU A UUCACUGA	7927	TCAGTGAA GGCTAGCTACAACGA ATGACCAG	32040
2661	8369	CUGAAUGU A CCACAUUG	7930	CAATGTGG GGCTAGCTACAACGA ACATTCAG	32041
2692	8338	CACCCAAU A CAUCUCGU	7934	ACGAGATG GGCTAGCTACAACGA ATTTGGGTG	32042
2746	8284	CCCCCAU A CCGGCGUU	7943	AACGCCGG GGCTAGCTACAACGA ATGGGGGG	32043
2775	8255	UCUUCUCU A UGACUUUC	7950	GAAAGTCA GGCTAGCTACAACGA AGAGAAGA	32044
2873	8157	AUCGUCCU A UGCUCUUC	7968	GAAGAGCA GGCTAGCTACAACGA AGGACGAT	32045
3043	7987	CUUUGUGU A CCCUCUGA	8000	TCAGAGGG GGCTAGCTACAACGA ACACAAAG	32046
3080	7950	GUUGCCAU A UAGUAACA	8012	TGTTACTA GGCTAGCTACAACGA ATGGCAAC	32047
3271	7759	UUUGCGGU A CCUAGUGA	8052	TCAGTAGG GGCTAGCTACAACGA ACCGCAAA	32048
3381	7649	UGUUCUUU A UGAGUGUC	8092	GACACTCA GGCTAGCTACAACGA AAAGAACA	32049
3396	7634	UCCAUGUU A UGGAUAGA	8095	TCTATCCA GGCTAGCTACAACGA AACATGGA	32050
3531	7499	CUUCUCGU A CUGUCUUC	8114	GAAGACAG GGCTAGCTACAACGA ACGAGAAG	32051
3555	7475	GGUUCACU A CUACUGCA	8120	TGCAGTAG GGCTAGCTACAACGA AGTGAACC	32052
3558	7472	UCACUACU A CUGCAGCU	8121	AGCTGCAG GGCTAGCTACAACGA AGTAGTGA	32053
3666	7364	CAUCCACU A CAGCGUUC	8137	GAACGCTG GGCTAGCTACAACGA AGTGGATG	32054
3780	7250	CCGCUGUU A CCGUAACG	8152	CGTTACGG GGCTAGCTACAACGA AACAGCGG	32055
3900	7130	GAACGUUU A UUGAGGUC	8165	GACCTCAA GGCTAGCTACAACGA AAACGTTT	32056
3982	7048	CACAGCGU A CAGUGACC	8177	GGTCACTG GGCTAGCTACAACGA ACGCTGTG	32057
4077	6953	AACUGCUU A UGUCACUC	8193	GAGTGACA GGCTAGCTACAACGA AAGCAGTT	32058

4094	6936	UUGGUCUU A UCUAGCCA	8199	TGGCTAGA GGCTAGCTACAACGA AAGACCAA	32059
4323	6707	CCAAACCU A UCUUCCA	8234	TGGAAGA GGCTAGCTACAACGA AGGTTTGG	32060
4362	6668	GGAAGAAU A CUCCCAUG	8241	CATGGGAG GGCTAGCTACAACGA ATTCTTCC	32061
4480	6550	CACAACGU A CAUGGUGU	8264	ACACCATG GGCTAGCTACAACGA ACGTTGTG	32062
4554	6476	UGAGCCCU A UCUGAGAA	8277	TTCTCAGA GGCTAGCTACAACGA AGGGCTCA	32063
4615	6415	AUCCGAGU A CACCCUGG	8289	CCAGGGTG GGCTAGCTACAACGA ACTCGGAT	32064
4747	6283	GUCGUGGU A UGACACUC	8319	GAGTGTCA GGCTAGCTACAACGA ACCACGAC	32065
4849	6181	GAGCCGGU A UUCCCAU	8340	ATGGGGAA GGCTAGCTACAACGA ACCGGCTC	32066
4865	6165	UCCAUGGU A UAUACCUU	8344	AAGGTATA GGCTAGCTACAACGA ACCATGGA	32067
4867	6163	CAUGGUUU A UACCUUCU	8345	AGAAGGTA GGCTAGCTACAACGA ATACCATG	32068
4869	6161	UGGUUAUU A CCUUCUCA	8346	TGAGAAGG GGCTAGCTACAACGA ATATACCA	32069
5002	6028	AUAACAGU A CUCAUCAC	8374	GTGATGAG GGCTAGCTACAACGA ACTGTTAT	32070
5030	6000	GGAUUUCU A CCGAUACG	8381	CGTATCGG GGCTAGCTACAACGA AGAAATCC	32071
5036	5994	CUACCGAU A CGUCCACG	8382	CGTGGACG GGCTAGCTACAACGA ATCGGTAG	32072
5115	5915	CUUCUGUU A UGAUGGUU	8400	AACCATCA GGCTAGCTACAACGA AACAGAAG	32073
5187	5843	UUUCAGAU A UGUCUGUU	8417	AACAGACA GGCTAGCTACAACGA ATCTGAAA	32074
5225	5805	UCGUUCUU A CAUUUUGG	8427	CCAAAATG GGCTAGCTACAACGA AGAAGCGA	32075
5236	5794	UUUUGGGU A CUCCGUCU	8431	AGACGGAG GGCTAGCTACAACGA ACCCAAAA	32076
5248	5782	CGUCUCGU A CGACUUUC	8435	GAAAGTCG GGCTAGCTACAACGA ACGAGACG	32077
5271	5759	AUUGGACU A CUUUCUUU	8442	AAAGAAAG GGCTAGCTACAACGA AGTCCAAT	32078
5356	5674	CCCGGUGU A UUCUGUGA	8461	TCACAGAA GGCTAGCTACAACGA ACACGGGG	32079
5374	5656	CCAUUCGU A UCCAGAGU	8467	ACTCTGGA GGCTAGCTACAACGA AACTAATG	32080
5481	5549	UCAUGAAU A UUGCCGCC	8483	GGCGGCAA GGCTAGCTACAACGA ATTCTATGA	32081
5663	5367	UUUCCAUA A UGUUCUCU	8511	AGAGAACA GGCTAGCTACAACGA AATGGAAA	32082
5692	5338	UGUCUGGU A CCGGAUGG	8516	CCATCCGG GGCTAGCTACAACGA ACCAGACA	32083
5781	5249	UUCUGUUU A UGGCCUCU	8534	AGAGGCCA GGCTAGCTACAACGA AAACAGAA	32084
5822	5208	CUUGUUUU A CCGCGGCC	8545	GGCGCCGG GGCTAGCTACAACGA AAAACAAG	32085
5847	5183	GAUCCAGU A CAGUGAUC	8547	GATCACTG GGCTAGCTACAACGA ACTGGATC	32086
5925	5105	CCUGCACU A UCGCGCUU	8568	AAGCGCGA GGCTAGCTACAACGA AGTGCAGG	32087
5934	5096	UCGCGCUU A UGUUAGAG	8571	CTCATACA GGCTAGCTACAACGA AAGCGCGA	32088
5938	5092	GCUUAUGU A UGAGCCGU	8572	ACGGCTCA GGCTAGCTACAACGA ACATAAGC	32089
5955	5075	UGGGCAUU A UGACUCCA	8575	TGGAGTCA GGCTAGCTACAACGA AATGCCCA	32090
6003	5027	UGUCCACU A UUGGUGAG	8586	CTCACCAA GGCTAGCTACAACGA AGTGGACA	32091
6217	4813	GCCCCAGU A UGGGUCCA	8631	TGGACCCA GGCTAGCTACAACGA ACTGGGGC	32092
6266	4764	UUUGUUGU A UGCCAAAG	8642	CTTTGGCA GGCTAGCTACAACGA ACAACAAA	32093
6382	4648	CUUUUUGU A CUUUUUUG	8658	CAAAGGAG GGCTAGCTACAACGA ACAAAGAG	32094
6430	4600	CUUUGUGU A UUGGAGAG	8668	CTCTCCAA GGCTAGCTACAACGA ACACAAAG	32095
6441	4589	GGAGAGUU A UCCAAAUA	8671	ATTTTGGG GGCTAGCTACAACGA AACTCTCC	32096
6456	4574	AUCCAACU A CUGAGGGC	8674	GCCCTCAG GGCTAGCTACAACGA AGTTGGAT	32097
6484	4546	GGGGUGU A CGCACUAA	8676	TTAGTTCG GGCTAGCTACAACGA ACACCCCC	32098
6522	4508	GCAUCCAU A UCUUCCAA	8682	TTGGAAGA GGCTAGCTACAACGA ATGGATGC	32099
6659	4371	AUCCACAU A UCUGUUGA	8716	TCAACAGA GGCTAGCTACAACGA ATGTGGAT	32100
6818	4212	CCGCGUUU A CGGUUGGG	8740	CCCAACCG GGCTAGCTACAACGA AAACGCGG	32101
6957	4073	AGCUGCCU A UUCCGACC	8767	GGTCGGAA GGCTAGCTACAACGA AGGCAGCT	32102
6978	4052	ACAGCAGU A UCCUGUAC	8771	GTACAGGA GGCTAGCTACAACGA ACTGCTGT	32103
6985	4045	UAUCCUGU A CACAUCUA	8773	TGGATGTG GGCTAGCTACAACGA ACAGGATA	32104
7068	3962	UGAAUGUU A UGGCUCUC	8787	GAGAGCCA GGCTAGCTACAACGA AACATTCA	32105
7080	3950	CUCUCAGU A UCAUCCAA	8790	TTGGATGA GGCTAGCTACAACGA ACTGAGAG	32106
7092	3938	UCCAAGCU A CCGCCAGU	8793	ACTGGCGG GGCTAGCTACAACGA AGCTTGGA	32107
7251	3779	CUGGUUGU A UCUUGAAG	8817	CTTCAAGA GGCTAGCTACAACGA ACAACCAG	32108
7281	3749	CCAAGUGU A CCACGUCU	8821	AGACGTGG GGCTAGCTACAACGA ACACTTGG	32109
7395	3635	CAAUCAGU A UAGCUGGC	8836	GCCAGCTA GGCTAGCTACAACGA ACTGATTG	32110
7493	3537	UCAAUCAU A UCAGCAUU	8846	AATGCTGA GGCTAGCTACAACGA ATGATTGA	32111
7502	3528	UCAGCAUU A UAAGCAUU	8849	AATGCTTA GGCTAGCTACAACGA AATGCTGA	32112
7565	3465	AUCUCCAU A CCAUACCA	8865	TGGTATGG GGCTAGCTACAACGA ATGGAGAT	32113
7570	3460	CAUACCAU A CCAACAGC	8866	GCTGTTGG GGCTAGCTACAACGA ATGGTATG	32114
7638	3392	AAUCUGUU A UCAACUUU	8875	AAAGTTGA GGCTAGCTACAACGA AACAGATT	32115
7743	3287	CAUUCUCU A CCCGGCCU	8895	AGGCCGGG GGCTAGCTACAACGA AGAGATTG	32116
7783	3247	UGUCUUGU A CCCAGGUC	8904	GACCTGGG GGCTAGCTACAACGA ACAAGACA	32117
7833	3197	UGACUGGU A UUAUCAAG	8912	CTTGATAA GGCTAGCTACAACGA ACCAGTCA	32118
7836	3194	CUGGUAAU A UCAAGUCA	8914	TGACTTGA GGCTAGCTACAACGA AATACCAG	32119
7874	3156	CACAAGGU A UGCUCUC	8922	GAGACGCA GGCTAGCTACAACGA ACCTTGTTG	32120
7892	3138	GGCCACGU A CAUGAUUU	8925	AAATCATG GGCTAGCTACAACGA ACGTGGCC	32121

7937	3093	UCCACGU A UCAUUGAG	8935	CTCAATGA GGCTAGCTACAACGA ACGTGGAA	32122
8108	2922	UCUAAGCU A UUCCAAGC	8971	GCTTGGAA GGCTAGCTACAACGA AGCTTAGA	32123
8198	2832	AAUAAAAU A CUCUUUCC	8988	GGAAAGAG GGCTAGCTACAACGA ATTTTATT	32124
8272	2758	UGACUUGU A CAUUCUUU	9007	AGGGAATG GGCTAGCTACAACGA ACAAGTCA	32125
8411	2619	CCUUCUUU A UGAGCUUU	9040	AAAGCTCA GGCTAGCTACAACGA AAGGAAGG	32126
8461	2569	AGGGUAAU A CUUGUACC	9052	GGTACAAG GGCTAGCTACAACGA ATTACCCT	32127
8467	2563	AUACUUGU A CCGGUCCA	9054	TGGACCGG GGCTAGCTACAACGA ACAAGTAT	32128
8499	2531	CAUUGUGU A UGAACACU	9060	AGTGTTC A GGCTAGCTACAACGA ACACAATG	32129
8544	2486	UGAUGUCU A UGGCACAC	9069	GTGTGCCA GGCTAGCTACAACGA AGACATCA	32130
8622	2408	UGAGAGCU A UGGACCUA	9075	TAGGTCCA GGCTAGCTACAACGA AGCTCTCA	32131
8630	2400	AUGGACCU A UCACGAGC	9076	GCTCGTGA GGCTAGCTACAACGA AGGTCCAT	32132
8685	2345	CUUGCGUU A UCCAGGAC	9083	GTCCTGGA GGCTAGCTACAACGA AACGCAAG	32133
8913	2117	CCACCACU A UGUUAUGAG	9117	CTCATACA GGCTAGCTACAACGA AGTGGTGG	32134
8917	2113	CACUAUGU A UGAGUCUC	9118	GAGACTCA GGCTAGCTACAACGA ACATAGTG	32135
9079	1951	GCCAGUGU A CUGCAAUU	9141	AATTGCAG GGCTAGCTACAACGA AACTGGC	32136
9200	1830	UUCACUCU A CACUUCAA	9164	TTGAAGTG GGCTAGCTACAACGA AGAGTGAA	32137
9306	1724	CCAAUGCU A UCACAGAC	9178	GTCTGTGA GGCTAGCTACAACGA AGCATTGG	32138
9374	1656	CACACAGU A CUUCCAGC	9194	GCTGGAAG GGCTAGCTACAACGA ACTGTGTG	32139
9463	1567	CACGUAGU A UGCAUUGG	9209	CCAATGCA GGCTAGCTACAACGA ACTACGTG	32140
9517	1513	CUCUCCAU A UUCUCCAA	9219	TTGGAGAA GGCTAGCTACAACGA ATGGAGAG	32141
9538	1492	UAGUGUGU A UGAAGGCG	9226	CGCCTTCA GGCTAGCTACAACGA ACACACTA	32142
9655	1375	CACUUCGU A CUUGAUUU	9240	ATATCAAG GGCTAGCTACAACGA ACGAAGTG	32143
9662	1368	UACUUGAU A UUCUCUUU	9242	AAAGAGAA GGCTAGCTACAACGA ATCAAGTA	32144
9687	1343	UUCUCCU A UUGCCUUG	9253	CAAGGCAA GGCTAGCTACAACGA AGGAAGAA	32145
9923	1107	GCCUCCAU A UUCAUCAU	9289	ATGATGAA GGCTAGCTACAACGA ATGGAGGC	32146
10165	865	CAGGGCAU A UCCAGGGU	9327	ACCCTGGA GGCTAGCTACAACGA ATGCCCTG	32147
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10207	823	UACCAAAU A CCUUGUGG	9340	CCACAAGG GGCTAGCTACAACGA ATTTGGTA	32149
10333	697	UCUCCAU A CCUGACGU	9365	ACGTCAGG GGCTAGCTACAACGA ATGGAAGA	32150
10388	642	GGAUCAUU A CCAGCCGA	9375	TCGGCTGG GGCTAGCTACAACGA AATGATCC	32151
10424	606	GUGAUAGU A UCAUCGCA	9380	TGCGATGA GGCTAGCTACAACGA ACTATCAC	32152
10438	592	GCACAUGU A UCCCAU	9383	ATGTGGGA GGCTAGCTACAACGA ACATGTGC	32153
10524	506	UAGCAUUU A CCGUCAUC	9401	GATGACGG GGCTAGCTACAACGA AAATGCTA	32154
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10803	227	CAAAUCGU A UUGGCCCC	9464	GGGGCCAA GGCTAGCTACAACGA ACGATTTG	32156
10889	141	UUUAGCAU A UUGACAGC	9482	GCTGTCAA GGCTAGCTACAACGA ATGCTAAA	32157
10997	33	CAAAACU A CUAAGUUU	9506	AAACTTAG GGCTAGCTACAACGA AGTGTTTG	32158
18	11012	GUUCUCGC A CCACCAGC	9513	GCTGGTGG GGCTAGCTACAACGA GCGAGAAC	32159
21	11009	CUCGCACC A CCAGCCAC	9515	GTGGCTGG GGCTAGCTACAACGA GGTGCGAG	32160
28	11002	CACCAGCC A CCAUUGUC	9519	GACAATGG GGCTAGCTACAACGA GGCTGGTG	32161
31	10999	CAGCCACC A UUGUCGGC	9521	CGCGACAA GGCTAGCTACAACGA GGTGGCTG	32162
42	10988	GUCGGCGC A CUGUGCCG	9522	CGGCACAG GGCTAGCTACAACGA GCGCCGAC	32163
131	10899	UUUGUGGC A CGGGGUCU	9537	AGACCCCG GGCTAGCTACAACGA GCCACAAA	32164
142	10888	GGGUCUCC A CUAACCUC	9540	GAGGTTAG GGCTAGCTACAACGA GGAGACCC	32165
195	10835	GGCCGUGC A CUUUAAC	9559	GTTTAAAG GGCTAGCTACAACGA GCACGGCC	32166
247	10783	UGGUUAAC A CCAUUACC	9574	GGTAATGG GGCTAGCTACAACGA GTTAACCA	32167
250	10780	UUAACACC A UUACCGGG	9576	CCCGGTAA GGCTAGCTACAACGA GGTGTTAA	32168
313	10717	CCUGGGGC A CUAUCGCA	9589	TGCGATAG GGCTAGCTACAACGA GCCCCAGG	32169
328	10702	CAGACUGC A CUCUCCG	9593	GCGGAGAG GGCTAGCTACAACGA GCAGTCTG	32170
345	10685	AGAGUAGC A CGCCGUAG	9598	CTACGGCG GGCTAGCTACAACGA GCTACTCT	32171
365	10665	GGUCUGAC A UUGGGCUU	9601	AAGCCCAA GGCTAGCTACAACGA GTCAGACC	32172
386	10644	GUUACAAC A UGUGGGGU	9604	ACCCACAA GGCTAGCTACAACGA GTTGTAAC	32173
425	10605	GGGCUUAC A UGAUACAC	9612	GTGATCCA GGCTAGCTACAACGA GTAAGCCC	32174
432	10598	CAUGGAUC A CUUCGCGG	9613	CCGCGAAG GGCTAGCTACAACGA GATCCATG	32175
449	10581	CUUUGUUC A CCCAGUCC	9616	GGACTGGG GGCTAGCTACAACGA GAACAAAG	32176
482	10548	CAGGCAGC A CCGUCUAC	9625	GTAGACGG GGCTAGCTACAACGA GCTGCCTG	32177
555	10475	CUAUUUAC A CUAACACC	9644	GGTGTTAG GGCTAGCTACAACGA GTAAATAG	32178
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587	10443	AAAACUAC A CUUUUAUG	9653	CATAAAAG GGCTAGCTACAACGA GTAGTTTT	32181
597	10433	UUUUUAUG A UACUUAUA	9655	TATAAGTA GGCTAGCTACAACGA GCATAAAA	32182
668	10362	GUGUCUUC A UAUCUCUU	9668	AAGAGATA GGCTAGCTACAACGA GAAGACAC	32183
687	10343	GUGAACUC A UGUAAUCC	9672	GGATTACA GGCTAGCTACAACGA GAGTTCAC	32184

696	10334	UGUAAUCC A CAUACUUC	9674	GAAGTATG GGCTAGCTACAACGA GGATTACA	32185
698	10332	UAAUCCAC A UACUUCUC	9675	GAGAAGTA GGCTAGCTACAACGA GTGGATTA	32186
707	10323	UACUUCUC A UCUCGGAU	9678	ATCGGAGA GGCTAGCTACAACGA GAGAAGTA	32187
741	10289	UGAUAGCC A CCUGGAUG	9685	CATCCAGG GGCTAGCTACAACGA GGCTATCA	32188
760	10270	UUCUGCCC A CGUGGCUC	9691	GAGCCACG GGCTAGCTACAACGA GGGCAGAA	32189
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796	10234	GCUGCCAC A CCAGAUGU	9701	ACATCTGG GGCTAGCTACAACGA GTGGCAGC	32191
833	10197	GGGACGUC A CUCCAUIU	9709	AAATGGAG GGCTAGCTACAACGA GACGTCCC	32192
838	10192	GUCACUCC A UUUCUCCA	9712	TGGAGAAA GGCTAGCTACAACGA GGAGTGAC	32193
846	10184	AUUUCUCC A CUGGGGUU	9715	AACCCACG GGCTAGCTACAACGA GGAGAAAT	32194
864	10166	UGUCUUCU A UCCAUIUA	9719	TGAATGGA GGCTAGCTACAACGA GGAAGACA	32195
868	10162	UUCCAUCU A UUCAUIUC	9721	AGAAATGA GGCTAGCTACAACGA GGATGGAA	32196
872	10158	AUCCAUIU A UUCUCCUC	9722	GAGGAGAA GGCTAGCTACAACGA GAATGGAT	32197
890	10140	AUCCAUIU A CGGUUCCA	9729	TGGAACCG GGCTAGCTACAACGA GTTGGAT	32198
909	10121	CCUCCAAC A UGUCCUCU	9736	AGAGGACA GGCTAGCTACAACGA GTTGGAGG	32199
924	10106	CUGUUGUC A UCCACUCU	9740	AGAGTGGA GGCTAGCTACAACGA GACAACAG	32200
928	10102	UGUCAUCC A CUCUCCUC	9742	GAGGAGAG GGCTAGCTACAACGA GGATGACA	32201
941	10089	CCUCCUGC A UGGAUGGA	9749	TCCATCCA GGCTAGCTACAACGA GCAGGAGG	32202
952	10078	GAUGGACC A CGUGGUUC	9751	GAACCACG GGCTAGCTACAACGA GGTCCATC	32203
981	10049	CCCAAUUC A CAGGGACA	9757	TGTCCTTG GGCTAGCTACAACGA GAATTGGG	32204
1011	10019	CGUUGGCC A UGAGCCGC	9762	GCGGCTCA GGCTAGCTACAACGA GGCCAACG	32205
1051	9979	AAGCAGCC A CAUCUGGG	9771	CCCAGATG GGCTAGCTACAACGA GGCTGCTT	32206
1053	9977	GCAGCCAC A UCUGGGCA	9772	TGCCCAGA GGCTAGCTACAACGA GTGGCTGC	32207
1061	9969	AUCUGGGC A UAAGACUU	9774	AAGTCTTA GGCTAGCTACAACGA GTCCGAT	32208
1099	9931	GACGUUCC A UCCGGCCC	9781	GGGCCGGA GGCTAGCTACAACGA GGAACGTC	32209
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1153	9877	UCCUCGGC A UGGAACCA	9798	TGGTTCCA GGCTAGCTACAACGA GCCGAGGA	32211
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1175	9855	GUUCUUCU A UCUUCAU	9805	ATGAAAGA GGCTAGCTACAACGA GGAAGAAC	32213
1182	9848	CAUCUUUC A UGAUCAAU	9807	ATTGATCA GGCTAGCTACAACGA GAAAGATG	32214
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1284	9746	CCUUUGAC A UAGCAUUG	9828	CAATGCTA GGCTAGCTACAACGA GTCAAAGG	32218
1289	9741	GACAUAGC A UUGAGGAA	9829	TTCTCTAA GGCTAGCTACAACGA GCTATGTC	32219
1338	9692	GCUUUACC A CACAGUCA	9835	TGACTGTG GGCTAGCTACAACGA GGTAAGC	32220
1340	9690	UUUACCAC A CAGUCAUC	9836	GATGACTG GGCTAGCTACAACGA GTGGTAAA	32221
1346	9684	ACACAGUC A UCUCACU	9838	AGTGGAGA GGCTAGCTACAACGA GACTGTGT	32222
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1362	9668	UGACAGCC A UGCGGCUG	9845	CAGCCGCA GGCTAGCTACAACGA GGCTGTCA	32224
1385	9645	UCUUCCCC A UUCUAAA	9852	TTTGAGAA GGCTAGCTACAACGA GGGGAAGA	32225
1440	9590	GUUCUUCU A CAUCAUCU	9868	AGATGATG GGCTAGCTACAACGA GGAGAAAC	32226
1442	9588	UUCUCCAC A UCAUCUGG	9869	CCAGATGA GGCTAGCTACAACGA GTGGAGAA	32227
1445	9585	UCCACAUC A UCUGGGCC	9870	GGCCGAGA GGCTAGCTACAACGA GATGTGGA	32228
1458	9572	GGCCAAUC A CUCCUUCU	9874	GGAAGGAG GGCTAGCTACAACGA GATTGGCC	32229
1473	9557	CCCCUUCU A UCAUCCUC	9883	GAGGATGA GGCTAGCTACAACGA GGAAGGGG	32230
1476	9554	CUUCCAUC A UCCUCACC	9884	GGTGAGGA GGCTAGCTACAACGA GATGGAAG	32231
1482	9548	UCAUCCUC A CCAGCUGG	9887	CCAGCTGG GGCTAGCTACAACGA GAGGATGA	32232
1538	9492	ACUUGUCC A CUCCCCU	9896	AGGGGGAG GGCTAGCTACAACGA GGACAAGT	32233
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1611	9419	UCACUUUC A CAACUUUG	9919	CAAAGTTG GGCTAGCTACAACGA GAAAGTGA	32239
1670	9360	UGUUCCCC A UCAAGCAG	9932	CTGCTTGA GGCTAGCTACAACGA GGGGAACA	32240
1686	9344	GCUCAAGC A CCUAGCU	9937	AGCTAAGG GGCTAGCTACAACGA GCTTGAGC	32241
1697	9333	UUAGCUUC A UUUUCCAA	9941	TTGGAAAA GGCTAGCTACAACGA GAAGCTAA	32242
1745	9285	GCUGUGUC A UCAGCAUA	9953	TATGCTGA GGCTAGCTACAACGA GACACAGC	32243
1751	9279	UCAUCAGC A UAGAUCUU	9955	AAGATCTA GGCTAGCTACAACGA GCTGATGA	32244
1784	9246	CCAACUUC A CGCAGGAU	9966	ATCCTGCG GGCTAGCTACAACGA GAAGTTGG	32245
1826	9204	CCUCGAC A CCUCCUCC	9977	GGAGGAGG GGCTAGCTACAACGA GTCGAGGG	32246
1865	9165	UGGUCUUC A UUGAGAAA	9991	TTTCTCAA GGCTAGCTACAACGA GAAGACCA	32247

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1983	9047	UUCCCAUC A UGUUGUAA	10026	TTACAACA	GGCTAGCTACAACGA	GATGGGAA	32251
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2036	8994	CGCUCUC A UCCACCAU	10040	ATGGTGGA	GGCTAGCTACAACGA	GAGGAGCG	32253
2040	8990	CCUCAUCC A CCAUCUCC	10042	GGAGATGG	GGCTAGCTACAACGA	GGATGAGG	32254
2043	8987	CAUCCACC A UCUCCCAA	10044	TTGGGAGA	GGCTAGCTACAACGA	GGTGGATG	32255
2089	8941	GCUCUCC A UUGAUUCU	10059	AGAATCAA	GGCTAGCTACAACGA	GGAGGAGC	32256
2109	8921	CUUCAAAC A UGGCACCC	10064	GGGTGCCA	GGCTAGCTACAACGA	GTTTGAAG	32257
2114	8916	AACAUGGC A CCCAAAGC	10065	GCTTTGGG	GGCTAGCTACAACGA	GCCATGTT	32258
2126	8904	AAAGCUGC A UUGCUGUU	10070	AACAGCAA	GGCTAGCTACAACGA	GCAGCTTT	32259
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2226	8804	CAUUGAGC A CGUACUUC	10093	GAAGTACG	GGCTAGCTACAACGA	GCTCAATG	32264
2235	8795	CGUACUUC A CUCCUUCU	10095	AGAAGGAG	GGCTAGCTACAACGA	GAAGTACG	32265
2268	8762	UCGUGUCC A CCUUCUCU	10103	AGAGAAGG	GGCTAGCTACAACGA	GGACACGA	32266
2283	8747	CUUUGAAC A CUCGCUGC	10108	GCAGCGAG	GGCTAGCTACAACGA	GTTCAAAG	32267
2316	8714	UGUCAGUC A UGGCCAUG	10115	CATGGCCA	GGCTAGCTACAACGA	GACTGACA	32268
2322	8708	UCAUGGCC A UGGUGGUA	10117	TACCACCA	GGCTAGCTACAACGA	GGCCATGA	32269
2333	8697	GUGGUAAC A UUCGUGAU	10118	ATCACGAA	GGCTAGCTACAACGA	GTTACCAC	32270
2350	8680	GGUGUCCC A UGGUUUUG	10121	CAAAACCA	GGCTAGCTACAACGA	GGGACACC	32271
2373	8657	GCCUGACC A CUCCAUG	10125	CAATGGAG	GGCTAGCTACAACGA	GGTCAGGC	32272
2378	8652	ACCACUCC A UUGACCAG	10128	CTGGTCAA	GGCTAGCTACAACGA	GGAGTGGT	32273
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2417	8613	UUCACAUC A UAACUGCC	10137	GGCAGTTA	GGCTAGCTACAACGA	GATGTGAA	32276
2459	8571	UGGUUCUC A UCGUGGUG	10144	CACCACGA	GGCTAGCTACAACGA	GAGAACCA	32277
2470	8560	GUGGUGCC A CGUCGAAC	10146	GTTGACG	GGCTAGCTACAACGA	GGCACCAC	32278
2486	8544	CUGUACUC A CGCCUGAG	10149	CTCAGGCG	GGCTAGCTACAACGA	GAGTACAG	32279
2550	8480	GUUUUCCC A CCGCCUG	10161	CAGGGCGG	GGCTAGCTACAACGA	GGGAAAAC	32280
2564	8466	CUGGUUCC A CUUCCCAA	10167	TTGGGAAG	GGCTAGCTACAACGA	GGAACCAG	32281
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2619	8411	UUUUUCCC A UUCUCCU	10184	AGGAAGAA	GGCTAGCTACAACGA	GGAAAAAA	32283
2634	8396	CUAGGAGC A CCUGGCUG	10188	CAGCCAGG	GGCTAGCTACAACGA	GCTCCTAG	32284
2646	8384	GGCUGGUC A UAUUCACU	10192	AGTGAATA	GGCTAGCTACAACGA	GACCAGCC	32285
2652	8378	UCAUAUUC A CUGAAUGU	10193	ACATTCAG	GGCTAGCTACAACGA	GAATATGA	32286
2664	8366	AAUGUACC A CAUUGCCU	10196	AGGCAATG	GGCTAGCTACAACGA	GATGATAT	32287
2666	8364	UGUACCAC A UUGCCUGA	10197	TCAGGCAA	GGCTAGCTACAACGA	GTGGTACA	32288
2685	8345	CUCGACUC A CCCAAUAC	10202	GTATTGGG	GGCTAGCTACAACGA	GAGTCGAG	32289
2694	8336	CCCAAUAC A UCUCGUGC	10206	GCACGAGA	GGCTAGCTACAACGA	GTATTGGG	32290
2744	8286	CCCCCCCC A UACCGGCG	10219	CGCCGGTA	GGCTAGCTACAACGA	GGGGGGGG	32291
2766	8264	GCAGCUCC A UCUUCUCU	10224	AGAGAAGA	GGCTAGCTACAACGA	GGAGCTGC	32292
2787	8243	CUUUCGGC A UGUAGGGG	10229	CCCCTACA	GGCTAGCTACAACGA	GCCGAAAG	32293
2802	8228	GGCAGAGC A CCUUCACG	10231	CGTGAAGG	GGCTAGCTACAACGA	GCTCTGCC	32294
2808	8222	GCACCUUC A CGCAAAAU	10234	ATTTTGCG	GGCTAGCTACAACGA	GAAGTGCC	32295
2850	8180	CCUCAACC A UUUCAAGG	10249	CCTTGAAA	GGCTAGCTACAACGA	GTTTGAGG	32296
2891	8139	ACCUCAGC A CUUGACGA	10261	TCGTCAAG	GGCTAGCTACAACGA	GCTGAGGT	32297
2915	8115	CCGAUGUC A CAAAGGAG	10266	CTCCTTTG	GGCTAGCTACAACGA	GACATCGG	32298
2930	8100	AGGGUGUC A CAACACUC	10268	GAGTGTGG	GGCTAGCTACAACGA	GACACCCT	32299
2935	8095	GUCACAAC A CUCAGAAG	10270	CTTCTGAG	GGCTAGCTACAACGA	GTTGTGAC	32300
2955	8075	UGUAGAAC A CAUCCACU	10274	AGTGGATG	GGCTAGCTACAACGA	GTTCTACA	32301
2957	8073	UAGAACAC A UCCACUCC	10275	GGAGTGGA	GGCTAGCTACAACGA	GTGTTCTA	32302
2961	8069	ACACAUCC A CUCCACUC	10277	GATGTGGG	GGCTAGCTACAACGA	GGATGTGT	32303
2966	8064	UCCACUCC A CUCUUCAU	10280	ATGAAGAG	GGCTAGCTACAACGA	GGAGTGGA	32304
2973	8057	CACUCUUC A UGGUGACA	10283	TGTACCCA	GGCTAGCTACAACGA	GAAGATGT	32305
2989	8041	AAUGUUCU A UCCAUAAC	10286	GTTATGGA	GGCTAGCTACAACGA	GGAACATT	32306
2993	8037	UUCCAUCC A UAACUUUG	10288	CAAAGTTA	GGCTAGCTACAACGA	GGATGGAA	32307
3003	8027	AACUUUGC A CUAGUUGG	10290	CCAAC TAG	GGCTAGCTACAACGA	GCAAAGTT	32308
3020	8010	GGCUCUUC A UGUCCGGG	10294	CCCGGACA	GGCTAGCTACAACGA	GAAGAGCC	32309
3078	7952	GGGUUGCC A UAUAGUAA	10309	TTACTATA	GGCTAGCTACAACGA	GGCAACCC	32310

3088	7942	AUAGUAAAC A CCAACCGC	10310	GCGGTTGG	GGCTAGCTACAACGA GTTACTAT	32311
3104	7926	CCUCUCC A CAUCCAAG	10318	CTTGATG	GGCTAGCTACAACGA GGAAGAGG	32312
3106	7924	UCUCCAC A UCCAAGGU	10319	ACCTTGA	GGCTAGCTACAACGA GTGGAAGA	32313
3120	7910	GGUCAUUC A CUUUUCCG	10323	CGGAAAAG	GGCTAGCTACAACGA GATTGACC	32314
3160	7870	GACCAGCC A UCUCAGUU	10333	AACTGAGA	GGCTAGCTACAACGA GGCTGGTC	32315
3206	7824	CCAGUGAC A UUGCCUUC	10347	GAAGGCAA	GGCTAGCTACAACGA GTCAGTGG	32316
3294	7736	CUUUUGUC A UCUGGUUG	10364	CAACCAGA	GGCTAGCTACAACGA GACAAAAG	32317
3347	7683	UUUGCCCC A CCUCUUUU	10381	AAAAGAGG	GGCTAGCTACAACGA GGGGCAA	32318
3372	7658	GUUUUCC A UGUUCUUU	10388	AAAGAACA	GGCTAGCTACAACGA GAAAAAAC	32319
3391	7639	GAGUGUCC A UGUUAUGG	10391	CCATAACA	GGCTAGCTACAACGA GGACACTC	32320
3406	7624	GGAUAGAC A UGACAACC	10392	GGTTGTCA	GGCTAGCTACAACGA GTCTATCC	32321
3422	7608	CAACCCCC A CGCAUGAU	10400	ATCATGCG	GGCTAGCTACAACGA GGGGGTTG	32322
3426	7604	CCCCACGC A UGAUGUGG	10401	CCACATCA	GGCTAGCTACAACGA GCGTGGGG	32323
3479	7551	CUUGCUC A UUCUCCCA	10411	TGGGAGAA	GGCTAGCTACAACGA GGAGCAAG	32324
3495	7535	AAAGCGUC A CCGCUGCG	10416	CGCAGCGG	GGCTAGCTACAACGA GACGCTTT	32325
3540	7490	CUGUCUUC A CAGACGGG	10426	CCCGTCTG	GGCTAGCTACAACGA GAAGACAG	32326
3552	7478	ACGGGUUC A CUACUACU	10428	AGTAGTAG	GGCTAGCTACAACGA GAACCCGT	32327
3573	7457	CUAGAGAC A CCAAGAUC	10434	GATCTTGG	GGCTAGCTACAACGA GTCTCTAG	32328
3585	7445	AGAUCAGC A UGAUCUGU	10438	ACAGATCA	GGCTAGCTACAACGA GCTGATCT	32329
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3651	7379	CCGUGGCC A CGAUGCCA	10451	TGGCATCG	GGCTAGCTACAACGA GGCCACGG	32331
3659	7371	ACGAUGCC A UCCACUAC	10453	GTAGTGGA	GGCTAGCTACAACGA GGCATCGT	32332
3663	7367	UGCCAUC A CUACAGCG	10455	CGCTGTAG	GGCTAGCTACAACGA GGATGGCA	32333
3678	7352	CGUUCUUC A UGAUCCG	10459	CGGAATCA	GGCTAGCTACAACGA GAAGAACG	32334
3714	7316	CUGAGCGC A UUGCCUCA	10467	TGAGGCAA	GGCTAGCTACAACGA GCGCTCAG	32335
3741	7289	CGGGAACC A UGUAGGCA	10476	TGCCTACA	GGCTAGCTACAACGA GGTTCGCG	32336
3749	7281	AUGUAGGC A UAGUGGCA	10477	TGCCACTA	GGCTAGCTACAACGA GCCTACAT	32337
3811	7219	UCCCCAGC A UCCGGCUG	10487	CAGCCGGA	GGCTAGCTACAACGA GCTGGGGA	32338
3837	7193	GAGCCGAC A CUCCAACA	10493	TGTTGAG	GGCTAGCTACAACGA GTCGGCTC	32339
3845	7185	ACUCCAAC A UCGACGAA	10497	TTGCTCGA	GGCTAGCTACAACGA GTTGGAGT	32340
3884	7146	AAUAGUGC A CUUGCCUG	10500	CAGGCAAG	GGCTAGCTACAACGA GCACTATT	32341
3975	7055	CUGUUGUC A CAGCGUAC	10511	GTACGCTG	GGCTAGCTACAACGA GACAACAG	32342
4029	7001	ACUCUCCC A UGCUGAAA	10527	TTTCAGCA	GGCTAGCTACAACGA GGGAGAGT	32343
4082	6948	CUUAUGUC A CUCUUGGU	10542	ACCAAGAG	GGCTAGCTACAACGA GACATAAG	32344
4107	6923	GCCAACCC A UCUCGUUG	10551	CAACGAGA	GGCTAGCTACAACGA GGGTTGGC	32345
4122	6908	UGGCUGCC A CUGCGCUC	10555	GAGCGCAG	GGCTAGCTACAACGA GGCAGCCA	32346
4131	6899	CUGCGCUC A CAAGGGUC	10558	GACCCTTG	GGCTAGCTACAACGA GAGCGCAG	32347
4140	6890	CAAGGGUC A UGACACAA	10560	TTGTGTCA	GGCTAGCTACAACGA GACCCTTG	32348
4145	6885	GUCAUGAC A CAAAUACG	10561	CTGATTTG	GGCTAGCTACAACGA GTCATGAC	32349
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4212	6818	GAAUAGC A CAAUCAUC	10574	GATGATTG	GGCTAGCTACAACGA GCTAATTG	32351
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4347	6683	UCCGUGC A UGAGGAGG	10612	CCTCCTCA	GGCTAGCTACAACGA GCAGCGGA	32355
4368	6662	AUACUCCC A UGGUCAUC	10616	GATGACCA	GGCTAGCTACAACGA GGGAGTAT	32356
4374	6656	CCAUGGUC A UCACACUC	10617	GAGTGTGA	GGCTAGCTACAACGA GACCATGG	32357
4377	6653	UGGUCAUC A CACUCAAU	10618	ATTGAGTG	GGCTAGCTACAACGA GATGACCA	32358
4379	6651	GUCAUCAC A CUCAAUA	10619	TTATTGAG	GGCTAGCTACAACGA GTGATGAC	32359
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4473	6557	CAGUGGCC A CAACGUAC	10646	GTACGTTG	GGCTAGCTACAACGA GGCCACTG	32362
4482	6548	CAACGUAC A UGGUGUCA	10648	TGACACCA	GGCTAGCTACAACGA GTACGTTG	32363
4501	6529	UGCUCUCC A UGUUCUCC	10653	GGAAGACA	GGCTAGCTACAACGA GGAAGACA	32364
4512	6518	UCUUCUCC A UGAAGUGC	10658	GCACTTCA	GGCTAGCTACAACGA GGGGAAGA	32365
4527	6503	GCUCAGGC A UCUUCC	10661	GGGAAAGA	GGCTAGCTACAACGA GCCTGAGC	32366
4617	6413	CCGAGUAC A CCUGGCG	10682	CGCCAGGG	GGCTAGCTACAACGA GACTCGG	32367
4658	6372	UCCCUUC A CCAAGCUU	10695	AAGCTTGG	GGCTAGCTACAACGA GAAAGGAA	32368
4680	6350	UGACUUC A CUUCGUUG	10701	CAACGAAG	GGCTAGCTACAACGA GGAAGTCA	32369
4721	6309	CUAGGACC A UCAAAGCA	10708	TGCTTTGA	GGCTAGCTACAACGA GGTCTTAG	32370
4729	6301	AUCAAAGC A CCACUCC	10710	GGAGGTGG	GGCTAGCTACAACGA GCTTTGAT	32371
4732	6298	AAAGCACC A CUCCGGU	10712	ACCGGAGG	GGCTAGCTACAACGA GGTGCTTT	32372
4752	6278	GGUAUGAC A CUCCAGCC	10716	GGCTGGAG	GGCTAGCTACAACGA GTCATACC	32373

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4860	6170	CCCCAUCC A UGUUAUUAU	10752	ATATACCA GGCTAGCTACAACGA GGATGGGG	32375
4877	6153	ACCUUCUC A CGCUCUGG	10756	CCAGAGCG GGCTAGCTACAACGA GAGAAGGT	32376
4917	6113	CGUUUGGC A UGUUGAUG	10761	CATCAACA GGCTAGCTACAACGA GCCAAACG	32377
4935	6095	UGUCCAGC A UGAUUCGU	10764	ACGAATCA GGCTAGCTACAACGA GCTGGACA	32378
4979	6051	UGUCUUC A UUCGUGUG	10771	CACACGAA GGCTAGCTACAACGA GAAGACGA	32379
4994	6036	UGCCCCC A UAACAGUA	10777	TACTGTTA GGCTAGCTACAACGA GGGGGGCA	32380
5006	6024	CAGUACUC A UCACCAAC	10780	GTTGGTGA GGCTAGCTACAACGA GAGTACTG	32381
5009	6021	UACUCAUC A CCAACUUG	10781	CAAGTTGG GGCTAGCTACAACGA GATGAGTA	32382
5042	5988	AUACGUCC A CGUCUCUG	10788	CAGAGACG GGCTAGCTACAACGA GGACGTAT	32383
5057	5973	UGGCGGGC A CUAGCUGC	10791	GCAGCTAG GGCTAGCTACAACGA GCCGCCCA	32384
5070	5960	CUGCUGUC A CUGCAGAU	10795	ATCTGCAG GGCTAGCTACAACGA GACAGCAG	32385
5094	5936	CCAGGAUC A CUCUCCCU	10802	AGGGAGAG GGCTAGCTACAACGA GATCCTGG	32386
5130	5900	UUGGUUUC A CACUCUUC	10812	GAAGAGTG GGCTAGCTACAACGA GAAACCAA	32387
5132	5898	GGUUUCAC A CUCUCCG	10813	CGGAAGAG GGCTAGCTACAACGA GTGAAACC	32388
5151	5879	UGUCAUUC A CCCUGCUC	10819	GAGCAGGG GGCTAGCTACAACGA GATTGACA	32389
5178	5852	UAGCCCCC A UUUCAGAU	10830	ATCTGAAA GGCTAGCTACAACGA GGGGGCTA	32390
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5285	5745	UUUCCAGC A CGUUGUAG	10851	CTACAACG GGCTAGCTACAACGA GCTGGAAA	32393
5309	5721	GCAAUCUC A UUUCCCAU	10855	ATGGGGAA GGCTAGCTACAACGA GAGATTGC	32394
5316	5714	CAUUCCCC A UCUUGACA	10859	TGTCAAGA GGCTAGCTACAACGA GGGGAATG	32395
5324	5706	AUCUUGAC A CUAGGCAC	10861	GTGCCTAG GGCTAGCTACAACGA GTCAGAT	32396
5331	5699	CACUAGGC A CAAACCAA	10863	TTGGTTTG GGCTAGCTACAACGA GCCTAGTG	32397
5368	5662	UGUGAUCC A UUCGUUUC	10873	GATACGAA GGCTAGCTACAACGA GGATCACA	32398
5475	5555	UGGCUGUC A UGAUUAUU	10889	AATATTCA GGCTAGCTACAACGA GACAGCCA	32399
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5568	5462	CCUCAUCC A UCACGAAC	10912	GTTCTGTA GGCTAGCTACAACGA GGATGAGG	32401
5571	5459	CAUCCAUC A CGAACAGG	10913	CCTGTTCTG GGCTAGCTACAACGA GATGGATG	32402
5592	5438	AGUUCGGC A CCCUGUGA	10915	TCACAGGG GGCTAGCTACAACGA GCCGAAC	32403
5607	5423	GAGGAGAC A UCAGCCUG	10919	CAGGCTGA GGCTAGCTACAACGA GTCTCTCT	32404
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5637	5393	CAUGACAC A UGACAUCA	10925	TGATGTCA GGCTAGCTACAACGA GTGTCTATG	32407
5642	5388	CACUAGAC A UCAACAAU	10926	ATTGTTGA GGCTAGCTACAACGA GTCATGTG	32408
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5660	5370	UCAUUUCC A UUAUGUUC	10932	GAACATAA GGCTAGCTACAACGA GGAATGA	32410
5676	5354	CUCUGGGC A CUGCGGAU	10935	ATCCGCAG GGCTAGCTACAACGA GCCCAGAG	32411
5724	5306	CUUCAGCC A UCUCAGCA	10947	TGCTGAGA GGCTAGCTACAACGA GGCTGAAG	32412
5736	5294	CAGCAGCC A CAACCCUG	10952	CAGGGTTG GGCTAGCTACAACGA GCTGCTG	32413
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5871	5159	UCCUCAGC A UCUCAGGU	10982	ACCTGAGA GGCTAGCTACAACGA GCTGAGGA	32415
5903	5127	AUUGGCUC A UCCAUCU	10988	AGGATGGA GGCTAGCTACAACGA GAGCCAAT	32416
5907	5123	GCUCAUCC A UCCUUUCA	10990	TGAAAGGA GGCTAGCTACAACGA GGATGAGC	32417
5915	5115	AUCCUUUC A CCCUGCAC	10993	GTGCAGGG GGCTAGCTACAACGA GAAAGGAT	32418
5922	5108	CACCCUGC A CUAUCGCG	10997	CGCGATAG GGCTAGCTACAACGA GCAGGGTG	32419
5952	5078	CGUUGGGC A UUAUGACU	11001	AGTCATAA GGCTAGCTACAACGA GCCCAACG	32420
5963	5067	AUGACUCC A UUGCCAU	11004	TATGGCAA GGCTAGCTACAACGA GGAGTCAT	32421
5969	5061	CCAUUGCC A UAAAGCCC	11006	GGGCTTTA GGCTAGCTACAACGA GGCAATGG	32422
5982	5048	GCCCAAUC A CAUACCCG	11010	CGGTGATG GGCTAGCTACAACGA GATTGGGC	32423
5984	5046	CCAAUCAC A UCACCGUU	11011	AACGGTGA GGCTAGCTACAACGA GTGATTGG	32424
5987	5043	AUCACAUC A CCGUUUUU	11012	AAAAACGG GGCTAGCTACAACGA GATGTGAT	32425
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6129	4901	CCACAUC A UCUGCACC	11046	GTGTCAGA GGCTAGCTACAACGA GATTGTGG	32431
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6140	4890	UGCACUCC A UCCUGCCC	11051	GGGCAGGA GGCTAGCTACAACGA GAGGTGCA	32433
6154	4876	CCCGUUC A CUUGUCU	11057	AGCACAGG GGCTAGCTACAACGA GGAACGGG	32434
6206	4824	UCCUUGAC A CUGCCCA	11071	TGGGGCAG GGCTAGCTACAACGA GTCAGGA	32435
6243	4787	CUCCGUC A UCAAAGCG	11085	CGCTTTGA GGCTAGCTACAACGA GAGCGGAG	32436

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6342	4688	CACGAGUC A UGAUCCUG	11111	CAGGATCA GGCTAGCTACAACGA GACTCGTG	32441
6406	4624	AGUGUCCC A CAACACGC	11125	GCGTGTTG GGCTAGCTACAACGA GGGACACT	32442
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6507	4523	GACAGACC A UUCUGAGC	11148	GCTCAGAA GGCTAGCTACAACGA GGTCTGTC	32445
6516	4514	UUCUGAGC A UCCAUAUC	11150	GATATGGA GGCTAGCTACAACGA GCTCAGAA	32446
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6569	4461	UUUCCAUC A UCAUCAAG	11164	CTTGATGA GGCTAGCTACAACGA GATGGAAA	32451
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6584	4446	AGCCGCAC A UCAACUCU	11169	AGAGTTGA GGCTAGCTACAACGA GTGCGGCT	32454
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7112	3918	UUCAACAC A UCAGGGAU	11299	ATCCCTGA GGCTAGCTACAACGA GTGTTGAA	32479
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7236	3794	AUGCCACC A UAAACACU	11326	AGTGTTTA GGCTAGCTACAACGA GGTGGCAT	32485
7242	3788	CCAUAAAC A CUGGUUGU	11327	ACAACCAG GGCTAGCTACAACGA GTTTATGG	32486
7266	3764	AGGUCGCC A UGAGCGCC	11331	GGCGCTCA GGCTAGCTACAACGA GGCACCT	32487
7284	3746	AGUGUACC A CGUCUCCU	11335	AGGAGACG GGCTAGCTACAACGA GGTACACT	32488
7323	3707	CUGCCCCC A CCAAGAUG	11347	CATCTTGG GGCTAGCTACAACGA GGGGGCAG	32489
7334	3696	AAGAUGAC A UAGCGUAA	11350	TTACGCTA GGCTAGCTACAACGA GTCATCTT	32490
7344	3686	AGCGUAAAC A CAUCAGUG	11351	CACTGATG GGCTAGCTACAACGA GTTACGCT	32491
7346	3684	CGUAAACAC A UCAGUGUA	11352	TACACTGA GGCTAGCTACAACGA GTGTTACG	32492
7371	3659	CCCCAAAC A CCAGGACU	11359	AGTCCTGG GGCTAGCTACAACGA GTTTGGGG	32493
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7499	3531	AUAUCAGC A UUAUAAGC	11392	GCTTATAA GGCTAGCTACAACGA GCTGATAT	32498
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7524	3506	GUGACUGC A CGAGGGUC	11397	GACCCTCG GGCTAGCTACAACGA GCAGTCAC	32501
7538	3492	GUCUUUUC A UCAUGUCU	11399	AGACATGA GGCTAGCTACAACGA GAAAAGAC	32502
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7563	3467	UGAUCUCC A UACCAUAC	11406	GTATGGTA GGCTAGCTACAACGA GGAGATCA	32504
7568	3462	UCCAUAAC A UACCAACA	11408	TGTTGGTA GGCTAGCTACAACGA GGTATGGA	32505
7627	3403	CCUGCAGC A CCAAUCUG	11421	CAGATTGG GGCTAGCTACAACGA GCTGCAGG	32506
7679	3351	GCAGGUCC A CGGUGUCC	11433	GGACACCG GGCTAGCTACAACGA GGACCTGC	32507
7697	3333	CAGCUCUC A CUCAGGGU	11438	ACCCTGAG GGCTAGCTACAACGA GAGAGCTG	32508
7759	3271	UUCGUCCC A UGGGCCCC	11454	AGGGCCCA GGCTAGCTACAACGA GGGACGAA	32509
7844	3186	AUCAAGUC A CUCUCAAG	11471	CTTGAGAG GGCTAGCTACAACGA GACTTGAT	32510
7859	3171	AGGAUUCU A UCGCCCCA	11476	TGGGGCGA GGCTAGCTACAACGA GGAATCCT	32511
7867	3163	AUCGCCCC A CAAGGUAU	11480	ATACCTTG GGCTAGCTACAACGA GGGGCGAT	32512
7888	3142	CUCAGGCC A CGUACAUG	11485	CATGTACG GGCTAGCTACAACGA GGCCTGAG	32513
7894	3136	CCACGUAC A UGAUUUGA	11486	TCAAATCA GGCTAGCTACAACGA GTACGTGG	32514
7907	3123	UUGACUUC A CCCAGAAC	11488	GTTCTGGG GGCTAGCTACAACGA GAAGTCAA	32515
7933	3097	AAGCUUCC A CGUAUCAU	11499	ATGATACG GGCTAGCTACAACGA GGAAGCTT	32516
7940	3090	CACGUAUC A UUGAGCCU	11500	AGGCTCAA GGCTAGCTACAACGA GATACGTG	32517
7973	3057	GACAGGUC A CUGUGGAU	11508	ATCCACAG GGCTAGCTACAACGA GACCTGTC	32518
8024	3006	UUCGAGUC A CAUUCAGU	11518	ACTGAATG GGCTAGCTACAACGA GACTCGAA	32519
8026	3004	CGAGUCAC A UUCAGUUG	11519	CAACTGAA GGCTAGCTACAACGA GTGACTCG	32520
8061	2969	UCAGGAAC A UCCGAGUG	11528	CACTCGGA GGCTAGCTACAACGA GTTCCTGA	32521
8097	2933	AAUCCUCC A CUUCUAAG	11538	CTTAGAAG GGCTAGCTACAACGA GGAGGATT	32522
8134	2896	AGUCGGAC A UUCCUUGG	11545	CCAAGGAA GGCTAGCTACAACGA GTCCGACT	32523
8153	2877	UCCGGACC A UCAACCAC	11551	GTGGTTGA GGCTAGCTACAACGA GTCCCGGA	32524
8160	2870	CAUCAACC A CAAAGGUG	11554	CACCTTTG GGCTAGCTACAACGA GGTTGATG	32525
8274	2756	ACUUGUAC A UUCCCUCC	11575	GGAGGGAA GGCTAGCTACAACGA GTACAAGT	32526
8295	2735	UCUCAACC A CGACACUA	11584	TAGTGTCTG GGCTAGCTACAACGA GGTTGAGA	32527
8300	2730	ACCACGAC A CUAAGGUC	11585	GACCTTAG GGCTAGCTACAACGA GTCGTGGT	32528
8310	2720	UAAGGUCC A CACCAUUC	11588	GAATGGTG GGCTAGCTACAACGA GGACCTTA	32529
8312	2718	AGGUCCAC A CCAUUCUC	11589	GAGAATGG GGCTAGCTACAACGA GTGGACCT	32530
8315	2715	UCCACACC A UUCUCCUU	11591	AAGGAGAA GGCTAGCTACAACGA GGTGTGGA	32531
8349	2681	CGUCCUUC A CUGCUUCC	11600	GGAAGCAG GGCTAGCTACAACGA GAAGGACG	32532
8359	2671	UGCUUCCC A CAUUGUAU	11605	ATCAAATG GGCTAGCTACAACGA GGGAAAGCA	32533
8361	2669	CUUCCAC A UUUGAUGC	11606	GCATCAA GGCTAGCTACAACGA GTGGGAAG	32534
8398	2632	UAGACCGC A CACUCCUU	11613	AAGGAGTG GGCTAGCTACAACGA GCGGTCTA	32535
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8475	2555	ACCGGUCC A UCCAAGCC	11630	GGCTTGGA GGCTAGCTACAACGA GGACCGGT	32537
8487	2543	AAGCCUCC A CAUCAUUG	11636	CAATGATG GGCTAGCTACAACGA GGAGGCTT	32538
8489	2541	GCCUCCAC A UCAUUGUG	11637	CACAATGA GGCTAGCTACAACGA GTGGAGGC	32539
8492	2538	UCCACAUC A UUGUGUAU	11638	ATACACAA GGCTAGCTACAACGA GATGTGGA	32540
8505	2525	GUAUGAAC A CUCCACUU	11639	AAGTGGAG GGCTAGCTACAACGA GTTCATAC	32541
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8516	2514	CCACUUC A CAUCUCAG	11645	CTGAGATG GGCTAGCTACAACGA GGAAGTGG	32543
8518	2512	ACUCCAC A UCUCAGCU	11646	AGCTGAGA GGCTAGCTACAACGA GTGGAAGT	32544
8549	2481	UCUAUGGC A CACCCAGU	11654	ACTGGGTG GGCTAGCTACAACGA GCCATAGA	32545
8551	2479	UAUGGCAC A CCCAGUGU	11655	ACACTGGG GGCTAGCTACAACGA GTGCCATA	32546
8568	2462	CAGCGUGC A CGUUCACG	11660	CGTGAACG GGCTAGCTACAACGA GCACGCTG	32547
8574	2456	GCACGUUC A CGGAGAGG	11661	CCTCTCCG GGCTAGCTACAACGA GAACGTGC	32548
8633	2397	GACCUAUC A CGAGCAUU	11672	AATGCTCG GGCTAGCTACAACGA GATAGGTC	32549
8639	2391	UCACGAGC A UUGAUGCC	11673	GGCATCAA GGCTAGCTACAACGA GCTCGTGA	32550
8649	2381	UGAUGCCC A UCCACAAC	11676	GTTGTGGA GGCTAGCTACAACGA GGGCATCA	32551
8653	2377	GCCCAUCC A CAACAGGA	11678	TCCTGTTG GGCTAGCTACAACGA GGATGGGC	32552
8694	2336	UCCAGGAC A UGCCUCCG	11691	CGGAGGCA GGCTAGCTACAACGA GTCTTGGA	32553
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8763	2267	AGGUGAAC A CCCCUCCA	11709	TGGAGGGG GGCTAGCTACAACGA GTTCACCT	32555
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8910	2120	UGCCCACC A CUAUGUAU	11751	ATACATAG GGCTAGCTACAACGA GGTGGGCA	32557
8973	2057	CCGUGGCC A CUGAAACA	11764	TGTTTCAG GGCTAGCTACAACGA GGCCACGG	32558
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9093	1937	AUCCAAC A CCACAGUG	11790	CACTGTGG GGCTAGCTACAACGA GTTGGAAT	32562

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9189	1841	AUUUUUCC A UCUUCACU	11814	AGTGAAGA GGCTAGCTACAACGA GGAATAAT	32565
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9202	1828	CACUCUAC A CUUCAAAU	11819	ATTGGAAG GGCTAGCTACAACGA GTAGAGTG	32567
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9309	1721	AUGCUAUC A CAGACUGC	11847	GCAGTCTG GGCTAGCTACAACGA GATAGCAT	32569
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9367	1663	GUUCCUCC A CACAGUAC	11863	GTACTGTG GGCTAGCTACAACGA GGAGGAAC	32571
9369	1661	UCCUCCAC A CAGUACUU	11864	AAGTACTG GGCTAGCTACAACGA GTGGAGGA	32572
9383	1647	CUUCCAGC A CUGCUCCA	11869	TGGAGCAG GGCTAGCTACAACGA GCTGGAAG	32573
9408	1622	UGAGGUCC A UGAACCAC	11875	GTGGTTCA GGCTAGCTACAACGA GGACCTCA	32574
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9419	1611	AACCACUC A CGAUGGAC	11879	GTCCATCG GGCTAGCTACAACGA GAGTGGTT	32576
9453	1577	CAACAGUC A UCACGUAG	11886	CTACGTGA GGCTAGCTACAACGA GACTGTTG	32577
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9648	1382	AAAUAGCC A CUUCGUAC	11932	GTACGAAG GGCTAGCTACAACGA GGCCATTT	32586
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9777	1253	UGUCCACC A CUCCUUGU	11966	ACAAGGAG GGCTAGCTACAACGA GGTGGACA	32589
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9927	1103	CCAUAUUC A UCAUCUUC	12001	GAAGATGA GGCTAGCTACAACGA GAATATGG	32597
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10006	1024	AUCCACCC A UGUUGCUC	12021	GAGCAACA GGCTAGCTACAACGA GGGTGGAT	32604
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10134	896	UCCCAAGC A UCCAACCA	12057	TGTTTGA GGCTAGCTACAACGA GCTTGGGA	32611
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10432	598	AUCAUCGC A CAUGUAUC	12132	GATACATG GGCTAGCTACAACGA GCGATGAT	32625

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355	10675	GCCGUAGC G UGGUCUGA	12330	TCAGACCA GGCTAGCTACAACGA GCTACGGC	32712
358	10672	GUAGCGUG G UCUGACAU	12331	ATGTCAGA GGCTAGCTACAACGA CACGCTAC	32713
370	10660	GACAUUGG G CUUUGAAG	12332	CTTCAAAG GGCTAGCTACAACGA CCAATGTC	32714
378	10652	GCUUUGAA G UUACAACA	12333	TGTTGTAA GGCTAGCTACAACGA TTCAAAGC	32715
388	10642	UACAACAU G UGGGUUCC	12334	GGACCCCA GGCTAGCTACAACGA ATGTTGTA	32716
393	10637	CAUGUGGG G UCCUCCUU	12335	AAGGAGGA GGCTAGCTACAACGA CCCACATG	32717
410	10620	CCGAGACG G UUCUGAGG	12336	CCTCAGAA GGCTAGCTACAACGA CGTCTCGG	32718
419	10611	UUCUGAGG G CUUACAUG	12337	CATGTAAG GGCTAGCTACAACGA CCTCAGAA	32719
437	10593	AUCACUUC G CGGCUUUG	12338	CAAAGCCG GGCTAGCTACAACGA GAAGTGAT	32720
440	10590	ACUUCGCG G CUUUGUUC	12339	GAACAAAG GGCTAGCTACAACGA CGCGAAGT	32721
445	10585	GCGGCUUU G UUCACCCA	12340	TGGGTGAA GGCTAGCTACAACGA AAAGCCGC	32722
454	10576	UUCACCCA G UCCUCCUG	12341	CAGGAGGA GGCTAGCTACAACGA TGGGTGAA	32723
465	10565	CUCCUGGG G UUGAGUCG	12342	CGACTCAA GGCTAGCTACAACGA CCCAGGAG	32724
470	10560	GGGUUGA G UCGCAGGC	12343	GCCTGCGA GGCTAGCTACAACGA TCAACCCC	32725
473	10557	GUUGAGUC G CAGGCAGC	12344	GCTGCCTG GGCTAGCTACAACGA GACTCAAC	32726
477	10553	AGUCGCAG G CAGCACCG	12345	CGGTGCTG GGCTAGCTACAACGA CTGCGACT	32727
480	10550	CGCAGGCA G CACCGUCU	12346	AGACGGTG GGCTAGCTACAACGA TGCCTGCG	32728
485	10545	GCAGCACC G UCUACUCA	12347	TGAGTAGA GGCTAGCTACAACGA GGTGCTGC	32729
501	10529	AACUCCG G UGGCGGGA	12348	TCCCGCCA GGCTAGCTACAACGA CGGAAGTT	32730
504	10526	UUCGGUG G CGGGAACU	12349	AGTTCCCG GGCTAGCTACAACGA CACCGGAA	32731
518	10512	ACUCCCG G CCUGACUU	12350	AAGTCAGG GGCTAGCTACAACGA CGGGAAGT	32732
595	10435	ACUUUAU G CAUACUUA	12351	TAAGTATG GGCTAGCTACAACGA ATAAAGT	32733
608	10422	CUUAUAU G UCUAUUA	12352	TAAATAGA GGCTAGCTACAACGA AATATAAG	32734
637	10393	UAUCUACA G UACUGUGU	12353	ACACAGTA GGCTAGCTACAACGA TGATAGTA	32735
642	10388	ACAGUACU G UGUCCUCA	12354	TGAGGACA GGCTAGCTACAACGA AGTACTGT	32736
644	10386	AGUACUGU G UCCUCAAC	12355	GTTGAGGA GGCTAGCTACAACGA ACAGTACT	32737
657	10373	CAACCAAA G UUGUGUCU	12356	AGACACAA GGCTAGCTACAACGA TTTGGTTG	32738
660	10370	CCAAAGUU G UGUCUACA	12357	TGAAGACA GGCTAGCTACAACGA AACTTTGG	32739
662	10368	AAAGUUGU G UCUUCAUA	12358	TATGAAGA GGCTAGCTACAACGA ACAACTTT	32740
679	10351	UCUCUUUA G UGAACUCA	12359	TGAGTTCA GGCTAGCTACAACGA TAAAGAGA	32741
689	10341	GAACUCAU G UAAUCCAC	12360	GTGGATTA GGCTAGCTACAACGA ATGAGTTC	32742
720	10310	CGAUGAUU G CUCUGACU	12361	AGTCAGAG GGCTAGCTACAACGA AATCATCG	32743
731	10299	CUGACUUG G UUGAUAGC	12362	GCTATCAA GGCTAGCTACAACGA CAAGTCAG	32744
738	10292	GGUUGAUA G CCACCUUG	12363	CCAGGTGG GGCTAGCTACAACGA TATCAACC	32745
749	10281	ACCUGGAU G UUUUCUGC	12364	GCAGAAAA GGCTAGCTACAACGA ATCCAGGT	32746
756	10274	UGUUUUUCU G CCCACGUG	12365	CACGTGGG GGCTAGCTACAACGA ATGAAACA	32747
762	10268	CUGCCAC G UGGCUCGG	12366	CCGAGCCA GGCTAGCTACAACGA GTGGGCAG	32748
765	10265	CCCACGUG G CUCGGGCU	12367	AGCCCGAG GGCTAGCTACAACGA CACGTGGG	32749
771	10259	UGGCUCGG G CUCUUGUG	12368	CACAGAG GGCTAGCTACAACGA CCGAGCCA	32750
777	10253	GGGCUCUU G UGCCAAUC	12369	GATTGGCA GGCTAGCTACAACGA AAGAGCCC	32751

779	10251	GCUCUUGU G CCAAUCAG	12370	CTGATTGG GGCTAGCTACAACGA ACAAGAGC	32752
788	10242	CCAAUCAG G CUGCCACA	12371	TGTGGCAG GGCTAGCTACAACGA CTGATTGG	32753
791	10239	AUCAGGCU G CCACACCA	12372	TGGTGTGG GGCTAGCTACAACGA AGCCTGAT	32754
803	10227	CACCAGAU G UCCUCUCG	12373	CGAGAGGA GGCTAGCTACAACGA ATCTGGTG	32755
811	10219	GUCCUCUC G UUUUCCUG	12374	CAGGAAAA GGCTAGCTACAACGA GAGAGGAC	32756
830	10200	UAUGGGAC G UCACUCCA	12375	TGGAGTGA GGCTAGCTACAACGA GTCCATA	32757
852	10178	CCACUGGG G UUUUGUCU	12376	AGACAAAA GGCTAGCTACAACGA CCCAGTGG	32758
857	10173	GGGUGUUU G UCUUCCAU	12377	ATGGAAGA GGCTAGCTACAACGA AAAACCCC	32759
893	10137	CAAACACG G UUCCAGAC	12378	GTCTGGAA GGCTAGCTACAACGA CGTGTGTTG	32760
911	10119	UCCAACAU G UCCUCUGU	12379	ACAGAGGA GGCTAGCTACAACGA ATGTTGGA	32761
918	10112	UGUCCUCU G UUGUCAUC	12380	GATGACAA GGCTAGCTACAACGA AGAGGACA	32762
921	10109	CCUCUGUU G UCAUCCAC	12381	GTGGATGA GGCTAGCTACAACGA AACAGAGG	32763
939	10091	CUCCUCCU G CAUGGAUG	12382	CATCCATG GGCTAGCTACAACGA AGGAGGAG	32764
954	10076	UGGACCAC G UGGUUCUU	12383	AAGAACCA GGCTAGCTACAACGA GTGTCTCA	32765
957	10073	ACCACGUG G UUCUCCG	12384	CGGAAGAA GGCTAGCTACAACGA CACGTGGT	32766
966	10064	UUCUCCG G UAGGGACC	12385	GGTCCCTA GGCTAGCTACAACGA CGGAAGAA	32767
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995	10035	ACAGCGGA G CAAAUGGC	12387	GCCATTG GGCTAGCTACAACGA TCCGCTGT	32769
1002	10028	AGCAAUG G CGUUGGCC	12388	GGCCAACG GGCTAGCTACAACGA CATTGCT	32770
1004	10026	CAAUUGGC G UUGGCCAU	12389	ATGGCCAA GGCTAGCTACAACGA GCCATTG	32771
1008	10022	UGGCGUUG G CCAUGAGC	12390	GCTCATGG GGCTAGCTACAACGA CAACGCCA	32772
1015	10015	GGCCAUGA G CCGCAGGU	12391	ACCTGCGG GGCTAGCTACAACGA TCATGGCC	32773
1018	10012	CAUGAGCC G CAGGUCUC	12392	GAGACCTG GGCTAGCTACAACGA GGCTCATG	32774
1022	10008	AGCCGCAG G UCUCUUCU	12393	AGAAGAGA GGCTAGCTACAACGA CTGCGGCT	32775
1031	9999	UCUCUUCU G UGGAAGUA	12394	TACTTCCA GGCTAGCTACAACGA AGAAGAGA	32776
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1045	9985	GUACAGAA G CAGCCACA	12396	TGTGGCTG GGCTAGCTACAACGA TTCTGTAC	32778
1048	9982	CAGAAGCA G CCACAUCU	12397	AGATGTGG GGCTAGCTACAACGA TGCTTCTG	32779
1059	9971	ACAUCUGG G CAUAAGAC	12398	GTCTTATG GGCTAGCTACAACGA CCAGATGT	32780
1071	9959	AAGACUUA G CCAGACAA	12399	TGTCTGG GGCTAGCTACAACGA TAAGTCTT	32781
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1083	9947	GACAAGCA G UGUCGCGG	12401	CCGCGACA GGCTAGCTACAACGA TGCTTGTC	32783
1085	9945	CAAGCAGU G UCGCGGAC	12402	GTCCGCGA GGCTAGCTACAACGA ACTGCTTG	32784
1088	9942	GCAGUGUC G CGGACGUU	12403	AACGTCCG GGCTAGCTACAACGA GACACTGC	32785
1094	9936	UCGCGGAC G UUCAUCC	12404	GGATGGAA GGCTAGCTACAACGA GTCCGCGA	32786
1104	9926	UCCAUCCG G CCCUGGA	12405	TCCAGGGG GGCTAGCTACAACGA CGGATGGA	32787
1118	9912	GGAGAUAU G CGAGCUCU	12406	AGAGCTCG GGCTAGCTACAACGA ATATCTCC	32788
1122	9908	AUAUGCGA G CUCUGCCU	12407	AGGCAGAG GGCTAGCTACAACGA TCGCATAT	32789
1127	9903	CGAGCUCU G CCUACCAA	12408	TTGGTAGG GGCTAGCTACAACGA AGAGCTCG	32790
1144	9886	UUCAUCCU G UCCUCGGC	12409	GCCGAGGA GGCTAGCTACAACGA AGGATGAA	32791
1151	9879	UGUCCUCG G CAUGGAAC	12410	GTTCCATG GGCTAGCTACAACGA CGAGGACA	32792
1165	9865	AACCACCA G UGUUCUUC	12411	GAAGAACA GGCTAGCTACAACGA TGGTGGTT	32793
1167	9863	CCACCAGU G UUCUCCA	12412	TGGAAGAA GGCTAGCTACAACGA ACTGGTGG	32794
1194	9836	UCAAUUCA G UGAAUUGG	12413	CCATTTCG GGCTAGCTACAACGA TGAATTGA	32795
1202	9828	GUGAAAUG G UUGAGCA	12414	TGCTCAA GGCTAGCTACAACGA CATTTCAC	32796
1208	9822	UGGUUUGA G CAAAUGG	12415	CCATTTTG GGCTAGCTACAACGA TCAAACCA	32797
1222	9808	UGGAACCU G CUGCCAAU	12416	ATTGGCAG GGCTAGCTACAACGA AGGTTCCA	32798
1225	9805	AACCUGCU G CCAAUCAU	12417	ATGATTGG GGCTAGCTACAACGA AGCAGGTT	32799
1242	9788	ACCAUCCA G UUGACGGU	12418	ACCGTCAA GGCTAGCTACAACGA TGGATGGT	32800
1249	9781	AGUUGACG G UUCCACU	12419	AGTGGAAA GGCTAGCTACAACGA CGTCAACT	32801
1265	9765	UCUUGGAU G UCUUUGCG	12420	CGCAAAGA GGCTAGCTACAACGA ATCCAAGA	32802
1271	9759	AUGUCUUU G CGAACCUU	12421	AAGGTTCC GGCTAGCTACAACGA AAAGACAT	32803
1287	9743	UUGACAUU G CAUUGAGG	12422	CCTCAATG GGCTAGCTACAACGA TATGTCAC	32804
1298	9732	UUGAGGAA G UGGAGCGA	12423	TCGCTCCA GGCTAGCTACAACGA TTCTCTCA	32805
1303	9727	GAAGUGGA G CGAGGUGG	12424	CCACCTCG GGCTAGCTACAACGA TCCACTTC	32806
1308	9722	GGAGCGAG G UGGCAAAG	12425	CTTTGCCA GGCTAGCTACAACGA CTCGCTCC	32807
1311	9719	GCGAGGUG G CAAAGCGA	12426	TCGCTTTG GGCTAGCTACAACGA CACCTCGC	32808
1316	9714	GUGGCAAA G CGAUCCGUC	12427	GACGATCG GGCTAGCTACAACGA TTTGCCAC	32809
1322	9708	AAGCGAUC G UCCAGGGG	12428	CCCCTGGA GGCTAGCTACAACGA GATCGCTT	32810
1330	9700	GUCCAGGG G CUUUAACCA	12429	TGGTAAAG GGCTAGCTACAACGA CCTGGGAC	32811
1343	9687	ACCACACA G UCAUCUCC	12430	GGAGATGA GGCTAGCTACAACGA TGTGTGGT	32812
1359	9671	CACUGACA G CCAUGCGG	12431	CCGCATGG GGCTAGCTACAACGA GTGTCAGT	32813
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1367	9663	GCCAUGC G CUGAGUCU	12433	AGACTCAG GGCTAGCTACAACGA CGCATGGC	32815
1372	9658	GCGGCUGA G UCUUUCU	12434	AAGAAAGA GGCTAGCTACAACGA TCAGCCGC	32816
1396	9634	CUCAAACA G CCAGGUCC	12435	GGACCTGG GGCTAGCTACAACGA TGTTTGAG	32817
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1414	9616	GACUUUGG G UCCUUUCC	12437	GGAAAGGA GGCTAGCTACAACGA CCAAAGTC	32819
1428	9602	UCCCUUUU G UGAGUUUC	12438	GAAACTCA GGCTAGCTACAACGA AAAAGGGA	32820
1432	9598	UUUUGUGA G UUUCUCCA	12439	TGGAGAAA GGCTAGCTACAACGA TCACAAAA	32821
1451	9579	UCAUCUGG G CCAAUCAC	12440	GTGATGAG GGCTAGCTACAACGA CCAGATGA	32822
1486	9544	CCUCACCA G CUGGACGG	12441	CCGTCCAG GGCTAGCTACAACGA TGGTGAGG	32823
1494	9536	GCUGGACG G CCAGGUUG	12442	CAACCTGG GGCTAGCTACAACGA CGTCCAGC	32824
1499	9531	ACGGCCAG G UUGGUGAA	12443	TTCAACCA GGCTAGCTACAACGA CTGGCCGT	32825
1503	9527	CCAGGUUG G UGAAAGUG	12444	CACITTTCA GGCTAGCTACAACGA CAACCTGG	32826
1509	9521	UGGUGAAA G UGUUUAGG	12445	CCTAAACA GGCTAGCTACAACGA TTTCACCA	32827
1511	9519	GUGAAAGU G UUUAGGGC	12446	GCCCTAAA GGCTAGCTACAACGA ACTTTCAC	32828
1518	9512	UGUUUAGG G CGUAGGUG	12447	CACCTACG GGCTAGCTACAACGA CCTAAACA	32829
1520	9510	UUUAGGGC G UAGGUGAC	12448	GTCACCTA GGCTAGCTACAACGA GCCCTAAA	32830
1524	9506	GGGCGUAG G UGACAACU	12449	AGTTGTCA GGCTAGCTACAACGA CTACGCC	32831
1534	9496	GACAACUU G UCCACUCC	12450	GGAGTGGA GGCTAGCTACAACGA AAGTTGTC	32832
1578	9452	CCAUGACG G UUCUCCA	12451	TGGAAGAA GGCTAGCTACAACGA CGTCATGG	32833
1590	9440	UUCCAUCA G CAGCCGGG	12452	CCCCTGGT GGCTAGCTACAACGA TGATGGAA	32834
1593	9437	CAUCAGCA G CCGGGCGC	12453	GCGCCCGG GGCTAGCTACAACGA TCGGTATG	32835
1598	9432	GCAGCCGG G CGCAUCAC	12454	GTGATGCG GGCTAGCTACAACGA CCGGCTGC	32836
1600	9430	AGCCGGGC G CAUCACUU	12455	AAGTGATG GGCTAGCTACAACGA GCCCGGCT	32837
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1629	9401	GACGAUAG G UGAGCUCA	12457	TGAGTCA GGCTAGCTACAACGA CTATCGTC	32839
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1644	9386	CAAUGAUG G CCCUGGCA	12459	TGCCAGGG GGCTAGCTACAACGA CATCATTG	32841
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1657	9373	GGCAAGAC G CCGAUGUU	12461	AACATCGG GGCTAGCTACAACGA GTCTTGCC	32843
1663	9367	ACGCCGAU G UUCCCCAU	12462	ATGGGGAA GGCTAGCTACAACGA ATCGGCGT	32844
1675	9355	CCCAUCAA G CAGCUCAA	12463	TTGAGCTG GGCTAGCTACAACGA TTGATGGG	32845
1678	9352	AUCAAGCA G CUCAAGCA	12464	TGCTTGAG GGCTAGCTACAACGA TGCTTGAT	32846
1684	9346	CAGCUCAA G CACCUUAG	12465	CTAAGGTG GGCTAGCTACAACGA TTGAGCTG	32847
1692	9338	GCACCUUA G CUUCAUUU	12466	AAATGAAG GGCTAGCTACAACGA TAAGGTGC	32848
1706	9324	UUUCCAA G UCAGCUCU	12467	AGAGCTGA GGCTAGCTACAACGA TTGGAAAA	32849
1710	9320	CCAAGUCA G CUCUCGUG	12468	CACGAGAG GGCTAGCTACAACGA TGACTTGG	32850
1716	9314	CAGCUCUC G UGAUGCGG	12469	CCGCATCA GGCTAGCTACAACGA GAGAGCTG	32851
1721	9309	CUCGUGAU G CGGGUGUC	12470	GACACCCG GGCTAGCTACAACGA ATCAGGAG	32852
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1727	9303	AUGCGGGU G UCCAGGCC	12472	GGCTGGGA GGCTAGCTACAACGA ACCCGCAT	32854
1733	9297	GUGUCCCA G CCAGCUGU	12473	ACAGCTGG GGCTAGCTACAACGA TGGGACAC	32855
1737	9293	CCAGCCA G CUGUGUCA	12474	TGACACAG GGCTAGCTACAACGA TGGCTGGG	32856
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1749	9281	UGUCAUCA G CAUAGAUC	12477	GATCTATG GGCTAGCTACAACGA TGATGACA	32859
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1768	9262	GCCCCCAG G CCGGGUGC	12479	GCACCCGG GGCTAGCTACAACGA CTGGGGGC	32861
1773	9257	CAGGCCGG G UGCCAACU	12480	AGTTGGCA GGCTAGCTACAACGA CCGGCCTG	32862
1775	9255	GGCCGGGU G CCAACUUC	12481	GAAGTTGG GGCTAGCTACAACGA ACCCGGCC	32863
1786	9244	AACUUCAC G CAGGAUGU	12482	ACATCCTG GGCTAGCTACAACGA GTGAAGTT	32864
1793	9237	CGCAGGAU G UAACCCAG	12483	CTGGGTTA GGCTAGCTACAACGA ATCCTGCG	32865
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1838	9192	CCUCCUGA G UUCUUUCU	12487	AGAAAGAA GGCTAGCTACAACGA TCAGGAGG	32869
1852	9178	UCUCCAA G CCAGUGGU	12488	ACCCTGGG GGCTAGCTACAACGA TTGGAAGA	32870
1856	9174	CCAAGCCA G UGGUCUUC	12489	GAAGACCA GGCTAGCTACAACGA TGGCTTGG	32871
1859	9171	AGCCAGUG G UCUUCAUU	12490	AATGAAGA GGCTAGCTACAACGA CACTGGCT	32872
1881	9149	AACCCAGA G CCUCGAAC	12491	GTTGAGGG GGCTAGCTACAACGA TCTGGGTT	32873
1898	9132	UCCAGAAA G CGAGCUCC	12492	GGAGCTCG GGCTAGCTACAACGA TTTCTGGA	32874
1902	9128	GAAAGCGA G CUCCGAGC	12493	GCTCGGAG GGCTAGCTACAACGA TCGCTTTC	32875
1909	9121	AGCUCCGA G CCACAUGA	12494	TCATGTGG GGCTAGCTACAACGA TCGGAGCT	32876
1926	9104	ACCAAUG G CUCUGCUU	12495	AAGCAGAG GGCTAGCTACAACGA CATTTGGT	32877

1931	9099	AUGGCUCU G CUUCCCUU	12496	AAGGGAAG GGCTAGCTACAACGA AGAGCCAT	32878
1941	9089	UUCCCUUG G CCUUUCCG	12497	CGGAAAGG GGCTAGCTACAACGA CAAGGGAA	32879
1960	9070	CUCUCCGG G UUUUUUCU	12498	AGAAAAAA GGCTAGCTACAACGA CCGGAGAG	32880
1985	9045	CCCAUCAU G UUGUAAAU	12499	ATTTACAA GGCTAGCTACAACGA ATGATGGG	32881
1988	9042	AUCAUGUU G UAAAUGCA	12500	TGCATTTA GGCTAGCTACAACGA AACATGAT	32882
1994	9036	UUGUAAAU G CAAGUGUG	12501	CACACTTG GGCTAGCTACAACGA ATTTACAA	32883
1998	9032	AAAUGCAA G UGUGACAU	12502	ATGTCACA GGCTAGCTACAACGA TTGCATTT	32884
2000	9030	AUGCAAGU G UGACAUUC	12503	GAATGTCA GGCTAGCTACAACGA ACTTGCAAT	32885
2014	9016	UUCCCCC G CAGAUGUG	12504	CACATCTG GGCTAGCTACAACGA GGGGGGAA	32886
2020	9010	CCGCAGAU G UGCCUCGC	12505	GCGAGGCA GGCTAGCTACAACGA ATCTGCGG	32887
2022	9008	GCAGAUU G CCUCGCGC	12506	GCGCGAGG GGCTAGCTACAACGA ACATCTGC	32888
2027	9003	UGUGCCUC G CGCUCUC	12507	GAGGAGCG GGCTAGCTACAACGA GAGGCACA	32889
2029	9001	UGCCUCGC G CUCCUCAU	12508	ATGAGGAG GGCTAGCTACAACGA GCGAGGCA	32890
2070	8960	CUUCAACU G CUUCUCUG	12509	CAGAGAAG GGCTAGCTACAACGA AGTTGAAG	32891
2079	8951	CUUCUCUG G CGCUCUC	12510	GAGGAGCG GGCTAGCTACAACGA CAGAGAAG	32892
2081	8949	UCUCUGGC G CUCCUCCA	12511	TGGAGGAG GGCTAGCTACAACGA GCCAGAGA	32893
2098	8932	UUGAUUCU G CUCUCAA	12512	TTGAAGAG GGCTAGCTACAACGA AGAATCAA	32894
2112	8918	CAACAUG G CACCCAAA	12513	TTTGGGTG GGCTAGCTACAACGA CATGTTTG	32895
2121	8909	CACCCAAA G CUGCAUUG	12514	CAATGCAG GGCTAGCTACAACGA TTTGGGTG	32896
2124	8906	CCAAAGCU G CAUUGCUG	12515	CAGCAATG GGCTAGCTACAACGA AGCTTTGG	32897
2129	8901	GCUGCAUU G CUGUUGAC	12516	GTCAACAG GGCTAGCTACAACGA AATGCAGC	32898
2132	8898	GCAUUGCU G UUGACCUU	12517	AAGGTCAA GGCTAGCTACAACGA AGCAATGC	32899
2162	8868	UCUCGAGA G CACAUCU	12518	AGAATGTG GGCTAGCTACAACGA TCTCAGAG	32900
2176	8854	UCUGGGAC G UUUUCUC	12519	GAGAAAAA GGCTAGCTACAACGA GTCCAGAG	32901
2187	8843	UUUCUCUG G CCAAAAAC	12520	GTTTTTGG GGCTAGCTACAACGA CAGAGAAA	32902
2196	8834	CCAAAAC G CCCACAAC	12521	GTTGTGGG GGCTAGCTACAACGA GTTTTTGG	32903
2207	8823	CACAACCA G UUGGUGGU	12522	ACCACCAA GGCTAGCTACAACGA TGGTTGTG	32904
2211	8819	ACCAGUUG G UGGUCUCA	12523	TGAGACCA GGCTAGCTACAACGA CAACTGGT	32905
2214	8816	AGUUGGUG G UCUCAUUG	12524	CAATGAGA GGCTAGCTACAACGA CACCAACT	32906
2224	8806	CUCAUUGA G CACGUACU	12525	AGTACGTG GGCTAGCTACAACGA TCAATGAG	32907
2228	8802	UUGAGCAC G UACUUCAC	12526	GTGAAGTA GGCTAGCTACAACGA GTGCTCAA	32908
2245	8785	UCCUUCUG G CGGUUCAG	12527	CTGAACCG GGCTAGCTACAACGA CAGAAGGA	32909
2248	8782	UUCUGGCG G UUCAGGAG	12528	CTCCTGAA GGCTAGCTACAACGA CGCCAGAA	32910
2256	8774	GUUCAGGA G CUUUCGUG	12529	CACGAAAG GGCTAGCTACAACGA TCCTGAAC	32911
2262	8768	GAGCUUUC G UGUCCACC	12530	GGTGGACA GGCTAGCTACAACGA GAAAGCTC	32912
2264	8766	GUUUCGU G UCCACCUU	12531	AAGGTGGA GGCTAGCTACAACGA ACGAAAGC	32913
2287	8743	GAACACUC G CUGCUGCC	12532	GGCAGCAG GGCTAGCTACAACGA GAGTGTTC	32914
2290	8740	CACUCGCU G CUGCCCGA	12533	TCGGGCGG GGCTAGCTACAACGA AGCGAGTG	32915
2293	8737	UCGUGCU G CCCGAAGG	12534	CCTTCGGG GGCTAGCTACAACGA AGCAGCGA	32916
2304	8726	CGAAGGGA G UAGUGUCA	12535	TGACACTA GGCTAGCTACAACGA TCCCTTCG	32917
2307	8723	AGGGAGUA G UGUCAGUC	12536	GACTGACA GGCTAGCTACAACGA TACTCCCT	32918
2309	8721	GGAGUAGU G UCAGUCAU	12537	ATGACTGA GGCTAGCTACAACGA ACTACTCC	32919
2313	8717	UAGUGUCA G UCAUGGCC	12538	GGCCATGA GGCTAGCTACAACGA TGACACTA	32920
2319	8711	CAGUCAUG G CCAUGGUG	12539	CACCATGG GGCTAGCTACAACGA CATGACTG	32921
2325	8705	UGGCCAUG G UGUUACA	12540	TGTTACCA GGCTAGCTACAACGA CATGGCCA	32922
2328	8702	CCAUGGUG G UAACAUUC	12541	GAATGTGA GGCTAGCTACAACGA CACCATGG	32923
2337	8693	UAACAUUC G UGAUGGUG	12542	CACCATCA GGCTAGCTACAACGA GAATGTGA	32924
2343	8687	UCGUGAUG G UGCCCAU	12543	ATGGGACA GGCTAGCTACAACGA CATCACGA	32925
2345	8685	GUGAUGGU G UCCCAUGG	12544	CCATGGGA GGCTAGCTACAACGA ACCATCAC	32926
2353	8677	GUCCCAUG G UUUUGAGA	12545	TCTCAAAA GGCTAGCTACAACGA CATGGGAC	32927
2365	8665	UGAGAGGA G CCUGACCA	12546	TGGTCAGG GGCTAGCTACAACGA TCCTCTCA	32928
2386	8644	AUUGACCA G CGAACUGG	12547	CCAGTTCC GGCTAGCTACAACGA TGGTCAAT	32929
2394	8636	GCGAACUG G CGGAGCCU	12548	AGGCTCCG GGCTAGCTACAACGA CAGTTCGC	32930
2399	8631	CUGGCGGA G CCUGUGGG	12549	CCCACAGG GGCTAGCTACAACGA TCCGCCAG	32931
2403	8627	CGGAGCCU G UGGGCUUC	12550	GAAGCCCA GGCTAGCTACAACGA AGGCTCCG	32932
2407	8623	GCCUGUGG G CUUCACAU	12551	ATGTGAAG GGCTAGCTACAACGA CCACAGGC	32933
2423	8607	UCAUAACU G CCGUGAUA	12552	TATCACGG GGCTAGCTACAACGA AGTTATGA	32934
2426	8604	UAACUGCC G UGAUAGUU	12553	AACTATCA GGCTAGCTACAACGA GGAGTTTA	32935
2432	8598	CCGUGAUA G UUCAGGU	12554	ACCTGGAA GGCTAGCTACAACGA TATCACGG	32936
2439	8591	AGUCCAG G UUCUAUUA	12555	ATATAGAA GGCTAGCTACAACGA CTGGAAC	32937
2450	8580	CUAUUUGG G UGUUCUC	12556	GAGAACCA GGCTAGCTACAACGA CCATATAG	32938
2453	8577	UAUGGGUG G UUCUCAUC	12557	GATGAGAA GGCTAGCTACAACGA CACCATA	32939
2462	8568	UUCUCAUC G UGGUGCCA	12558	TGGCACCA GGCTAGCTACAACGA GATGAGAA	32940

2465	8565	UCAUCGUG G UGCCACGU	12559	ACGTGGCA GGCTAGCTACAACGA CACGATGA	32941
2467	8563	AUCGUGGU G CCACGUCG	12560	CGACGTGG GGCTAGCTACAACGA ACCACGAT	32942
2472	8558	GGUGCCAC G UCGAACUG	12561	CAGTTCGA GGCTAGCTACAACGA GTGGCACC	32943
2480	8550	GUCGAACU G UACUCACG	12562	CGTGAGTA GGCTAGCTACAACGA AGTTCGAC	32944
2488	8542	GUACUCAC G CCUGAGUC	12563	GACTCAGG GGCTAGCTACAACGA GTGAGTAC	32945
2494	8536	ACGCCUGA G UCGUCAA	12564	TTGAACGA GGCTAGCTACAACGA TCAGGCGT	32946
2497	8533	CCUGAGUC G UUCAUCC	12565	GGATTGAA GGCTAGCTACAACGA GACTCAGG	32947
2507	8523	UCAAUCCU G UUCUUGAU	12566	ATCAAGAA GGCTAGCTACAACGA AGGATTGA	32948
2523	8507	UUUUACUG G UGUCUGAG	12567	CTCAGACA GGCTAGCTACAACGA CAGTAAAA	32949
2525	8505	UUACUGGU G UCUGAGUU	12568	AACTCAGA GGCTAGCTACAACGA ACCAGTAA	32950
2531	8499	GUGUCUGA G UUGAGCAG	12569	CTGCTCAA GGCTAGCTACAACGA TCAGACAC	32951
2536	8494	UGAGUUGA G CAGGGGUU	12570	AACCCCTG GGCTAGCTACAACGA TCAACTCA	32952
2542	8488	GAGCAGGG G UUUUCCCA	12571	TGGGAAAA GGCTAGCTACAACGA CCCTGCTC	32953
2553	8477	UUCCCACC G CCCUGGUU	12572	AACCAGGG GGCTAGCTACAACGA GGTGGGAA	32954
2559	8471	CCGCCCUG G UUCCACUU	12573	AAGTGGAA GGCTAGCTACAACGA CAGGGCGG	32955
2573	8457	CUUCCCAA G UUUACAUC	12574	GATGTAAA GGCTAGCTACAACGA TTGGGAAG	32956
2588	8442	UCUUCCUC G UAUUGGGG	12575	CCCCAATA GGCTAGCTACAACGA GAGGAAGA	32957
2596	8434	GUUUUGGG G UCCCUUCC	12576	GGAAGGGA GGCTAGCTACAACGA CCAATAC	32958
2607	8423	CCUUCACG G UCCUUUUU	12577	AAAAAGGA GGCTAGCTACAACGA CTGGAAGG	32959
2632	8398	UCCUAGGA G CACCUGGC	12578	GCCAGGTG GGCTAGCTACAACGA TCCTAGGA	32960
2639	8391	AGCACCAG G CUGGUCAU	12579	ATGACCAG GGCTAGCTACAACGA CAGGTGCT	32961
2643	8387	CCUGGCUG G UCAUAUUC	12580	GAATATGA GGCTAGCTACAACGA GAGCCAGG	32962
2659	8371	CACUGAAU G UACCACAU	12581	ATGTGGTA GGCTAGCTACAACGA ATTCACTG	32963
2669	8361	ACCACAUU G CCUGAAGC	12582	GCTTCAGG GGCTAGCTACAACGA AATGTGGT	32964
2676	8354	UGCCUGAA G CUCGACUC	12583	GAGTCGAG GGCTAGCTACAACGA TTCAGGCA	32965
2699	8331	UACAUCUC G UGCGUGGA	12584	TCCACGCA GGCTAGCTACAACGA GAGATGTA	32966
2701	8329	CAUCUCGU G CGUGGAAU	12585	ATTCCACG GGCTAGCTACAACGA ACGAGATG	32967
2703	8327	UCUCGUGC G UGGAAUUC	12586	GAATTCCA GGCTAGCTACAACGA GCACGAGA	32968
2713	8317	GGAAUUCG G UGAGAGUG	12587	CACCTCTA GGCTAGCTACAACGA GGAATTCC	32969
2719	8311	CCGUGAGA G UGGGUUUC	12588	GAAACCCA GGCTAGCTACAACGA TCTCACGG	32970
2723	8307	GAGAGUGG G UUUUGAC	12589	GTCAGAAA GGCTAGCTACAACGA CCACTCTC	32971
2734	8296	UCUGACCA G UCCCCCCC	12590	GGGGGGGA GGCTAGCTACAACGA TGGTCAGA	32972
2750	8280	CCAUACCG G CGUUGGAG	12591	CTCCAACG GGCTAGCTACAACGA CGGTATGG	32973
2752	8278	AUACCGGC G UUGGAGCA	12592	TGCTCCAA GGCTAGCTACAACGA GCCGGTAT	32974
2758	8272	GCGUUGGA G CAGCUCCA	12593	TGGAGCTG GGCTAGCTACAACGA TCCAACGC	32975
2761	8269	UUGGAGCA G CUCCAUCU	12594	AGATGGAG GGCTAGCTACAACGA TGCTCCAA	32976
2785	8245	GACUUUCG G CAUGUAGG	12595	CCTACATG GGCTAGCTACAACGA CGAAAGTC	32977
2789	8241	UUCGGCAU G UAGGGGCA	12596	TGCCCCTA GGCTAGCTACAACGA TCTCCGAA	32978
2795	8235	AUGUAGGG G CAGAGCAC	12597	GTGCTCTG GGCTAGCTACAACGA CCCTACAT	32979
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2810	8220	ACCUUCAC G CAAAUUC	12599	GAATTTTG GGCTAGCTACAACGA GTGAAGGT	32981
2824	8206	UUCCCUUG G CCCUCGGU	12600	ACCGAGGG GGCTAGCTACAACGA CAAGGGAA	32982
2831	8199	GGCCUCUG G UGCAGCCA	12601	TGGCTGCA GGCTAGCTACAACGA CGAGGGCC	32983
2833	8197	CCCUCGGU G CAGCCAGU	12602	ACTGGCTG GGCTAGCTACAACGA ACCGAGGG	32984
2836	8194	UCGGUGCA G CCAGUCCU	12603	AGGACTGG GGCTAGCTACAACGA TGCACCGA	32985
2840	8190	UGCAGCCA G UCCCAAC	12604	GTTGAGGA GGCTAGCTACAACGA TGGCTGCA	32986
2868	8162	CCCGAAUC G UCCUAUGC	12605	GCAATAGGA GGCTAGCTACAACGA GATTGGGG	32987
2875	8155	CGUCCUAU G CUCUCAA	12606	TTGAAGAG GGCTAGCTACAACGA ATAGGACG	32988
2889	8141	CAACCUCA G CACUUGAC	12607	GTCAAGTG GGCTAGCTACAACGA TGAGGTTG	32989
2912	8118	UCUCCGAU G UCACAAAG	12608	CTTTGTGA GGCTAGCTACAACGA ATCGGAGA	32990
2925	8105	AAAGGAGG G UGUCACAA	12609	TTGTGACA GGCTAGCTACAACGA CCTCCTTT	32991
2927	8103	AGGAGGGU G UCACAACA	12610	TGTTGTGA GGCTAGCTACAACGA ACCCTCCT	32992
2944	8086	CUCAGAAG G UCUGUAGA	12611	TCTACAGA GGCTAGCTACAACGA CTTCTGAG	32993
2948	8082	GAAGGUCU G UAGAACAC	12612	GTGTTCTA GGCTAGCTACAACGA AGACCTTC	32994
2976	8054	UCUUCUUG G UGACAAUG	12613	CATTGTCA GGCTAGCTACAACGA CATGAAGA	32995
2984	8046	GUGACAAU G UUCAUCC	12614	GGATGGAA GGCTAGCTACAACGA ATTGTAC	32996
3001	8029	AUAACUUU G CACUAGUU	12615	AACTAGTG GGCTAGCTACAACGA AAAGTTAT	32997
3007	8023	UUGCACUA G UUGGGGCU	12616	AGCCCCAA GGCTAGCTACAACGA TAGTGCAA	32998
3013	8017	UAGUUGGG G CUCUUCAU	12617	ATGAAGAG GGCTAGCTACAACGA CCAACTA	32999
3022	8008	CUCUUCAU G UCCGGGAC	12618	GTCCCGGA GGCTAGCTACAACGA ATGAAGAG	33000
3032	7998	CCGGGACC G CCCUUUGU	12619	ACAAAGGG GGCTAGCTACAACGA GGTCCCGG	33001
3039	7991	CGCCUUUU G UGUACCCU	12620	AGGGTACA GGCTAGCTACAACGA AAAGGGCG	33002
3041	7989	CCCUUUUU G UACCCUCU	12621	AGAGGGTA GGCTAGCTACAACGA ACAAAGGG	33003

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3075	7955	UUUGGGUU G CCAUAUAG	12623	CTATATGG GGCTAGCTACAACGA AACCCAAA	33005
3083	7947	GCCAUUAU G UAACACCA	12624	TGGTGTTA GGCTAGCTACAACGA TATATGGC	33006
3095	7935	CACCAACC G CCUCUUC	12625	GGAAGAGG GGCTAGCTACAACGA GGTGGTG	33007
3113	7917	CAUCCAAG G UCAAUCAC	12626	GTGATTGA GGCTAGCTACAACGA CTTGGATG	33008
3133	7897	UCCGACCG G UUCGAGAA	12627	TTCTCGAA GGCTAGCTACAACGA CGGTCGGA	33009
3148	7882	AAACCUCC G UUCGACCA	12628	TGGTCGAA GGCTAGCTACAACGA GGAGGTTT	33010
3157	7873	UUCGACCA G CCAUCUCA	12629	TGAGATGG GGCTAGCTACAACGA TGGTCGAA	33011
3166	7864	CCAUCUCA G UUUUGCUG	12630	CAGCAAAA GGCTAGCTACAACGA TGAGATGG	33012
3171	7859	UCAGUUUU G CUGUGCCC	12631	GGGCACAG GGCTAGCTACAACGA AAAACTGA	33013
3174	7856	GUUUUGCU G UGCCCCUA	12632	TAGGGGCA GGCTAGCTACAACGA AGCAAAAC	33014
3176	7854	UUUGCUGU G CCCUAGA	12633	TCTAGGGG GGCTAGCTACAACGA ACAGCAAA	33015
3193	7837	GACUGGAU G CCCUCCAG	12634	CTGGAGGG GGCTAGCTACAACGA ATCCAGTC	33016
3201	7829	GCCCUCCA G UGACAUUG	12635	CAATGTCA GGCTAGCTACAACGA TGGAGGGC	33017
3209	7821	GUGACAUU G CCUUCUUU	12636	AAAGAAGG GGCTAGCTACAACGA AATGTCAC	33018
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3224	7806	UUCUGGC G UGUUUUGC	12638	GCAAAACA GGCTAGCTACAACGA GCCAGGAA	33020
3226	7804	CCUGGCGU G UUUUGCCG	12639	CGGCAAAA GGCTAGCTACAACGA ACGCCAGG	33021
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3234	7796	GUUUUGCC G CUGAGCGA	12641	TCGCTCAG GGCTAGCTACAACGA GGCAAAAC	33023
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3266	7764	GCCUCUUU G CGGUACCU	12644	AGGTACCG GGCTAGCTACAACGA AAAGAGGC	33026
3269	7761	UCUUUGCG G UACCUAGU	12645	ACTAGGTA GGCTAGCTACAACGA CGCAAAGA	33027
3276	7754	GGUACCUA G UGAACUCU	12646	AGAGTTCA GGCTAGCTACAACGA TAGGTACC	33028
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3334	7696	CAAGGUGC G UCCUUUUG	12652	CAAAAGGA GGCTAGCTACAACGA GCACCTTG	33034
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3358	7672	UCUUUUUA G UCCUGGUU	12654	AACCAGGA GGCTAGCTACAACGA TAAAAGA	33036
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3474	7556	CAGAGCUU G CUCCAUC	12670	GAATGGAG GGCTAGCTACAACGA AAGCTCTG	33052
3490	7540	CUCCCAAA G CGUCACCG	12671	CGGTGACG GGCTAGCTACAACGA TTTGGGAG	33053
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3498	7532	GCGUCACC G CUGCGGCC	12673	GGCCGCAG GGCTAGCTACAACGA GGTGACGC	33055
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3534	7496	CUUGUACU G UCUCACA	12679	TGTGAAGA GGCTAGCTACAACGA AGTACGAG	33061
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3583	7447	CAAGAUCA G CAUGAUCU	12683	AGTACATG GGCTAGCTACAACGA TGATCTTG	33065
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3618	7412	UGAUGGGU G UGGUGCGC	12687	GCGCACCA GGCTAGCTACAACGA ACCCATCA	33069
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3783	7247	CUGUUACC G UAACGGUG	12717	CACCGTTA GGCTAGCTACAACGA GGTAAACAG	33099
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3816	7214	AGCAUCCG G CUGCUAGC	12722	GCTAGCAG GGCTAGCTACAACGA CGGATGCT	33104
3819	7211	AUCCGGCU G CUAGCAGG	12723	CCTGCTAG GGCTAGCTACAACGA AGCCGGAT	33105
3823	7207	GGCUGCUA G CAGGAGAG	12724	CTCTCCTG GGCTAGCTACAACGA TACTGACC	33106
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3865	7165	GAAGCCUC G CGCGAGUG	12727	CACTCGCG GGCTAGCTACAACGA GAGGCTTC	33109
3867	7163	AGCCUCGC G CGAGUGUG	12728	CACACTCG GGCTAGCTACAACGA GCGAGGCT	33110
3871	7159	UCGCGCGA G UGUGAAUA	12729	TATTACAA GGCTAGCTACAACGA TCGCGCGA	33111
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3880	7150	UGUGAAUA G UGCACUUG	12731	CAAGTGCA GGCTAGCTACAACGA TATTACAA	33113
3882	7148	UGAAUAGU G CACUUGCC	12732	GGCAAGTG GGCTAGCTACAACGA ACTATTCA	33114
3888	7142	GUGCACUU G CCUGAACG	12733	CGTTCAGG GGCTAGCTACAACGA AAGTGCAC	33115
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3917	7113	AAUGAGGU G UUGAUGUA	12737	TACATCAA GGCTAGCTACAACGA ACCTCATT	33119
3923	7107	GUGUUGAU G UAAUCUGA	12738	TCAGATTA GGCTAGCTACAACGA ATCAACAC	33120
3933	7097	AAUCUGAC G UGAUCAA	12739	TTTGATCA GGCTAGCTACAACGA GTCAGATT	33121
3943	7087	GAUCAAUA G CUUUAGCA	12740	TGCTAAAG GGCTAGCTACAACGA ATTTGATC	33122
3949	7081	AUGCUUUA G CAGUGGAG	12741	CTCCACTG GGCTAGCTACAACGA TAAAGCAT	33123
3952	7078	CUUUAGCA G UGAGUGA	12742	TCACTCCA GGCTAGCTACAACGA TGCTAAAG	33124
3957	7073	GCAGUGGA G UGAGGACC	12743	GGTCTCCA GGCTAGCTACAACGA TCACTGTC	33125
3966	7064	UGAGGACC G CUGUUGUC	12744	GACAACAG GGCTAGCTACAACGA GGTCTCTA	33126
3969	7061	GGACCGCU G UUGUCACA	12745	TGTGACAA GGCTAGCTACAACGA AGCGGTCC	33127
3972	7058	CCGUGUUU G UCACAGCG	12746	CGCTGTGA GGCTAGCTACAACGA AACAGCGG	33128
3978	7052	UUGUCACA G CGUACAGU	12747	ACTGTACG GGCTAGCTACAACGA TGTGACAA	33129

3980	7050	GUCACAGC G UACAGUGA	12748	TCACTGTA GGCTAGCTACAACGA GCTGTGAC	33130
3985	7045	AGCGUACA G UGACCAGG	12749	CCTGGTCA GGCTAGCTACAACGA TGTACGCT	33131
3993	7037	GUGACCAG G CUGUUGCC	12750	GGCAACAG GGCTAGCTACAACGA CTGGTCAC	33132
3996	7034	ACCAGGCU G UUGCCGGC	12751	GCCGGCAA GGCTAGCTACAACGA AGCCTGGT	33133
3999	7031	AGGCGUUG G CCGGCCUC	12752	GAGGCCGG GGCTAGCTACAACGA AACAGCCT	33134
4003	7027	UGUUGCCG G CCUCAAGU	12753	ACTTGAGG GGCTAGCTACAACGA CGGCAACA	33135
4010	7020	GGCCUCAA G UCCAAAAG	12754	CTTTTGGG GGCTAGCTACAACGA TTGAGGCC	33136
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4060	6970	AAUUCUUU G CCCAAACA	12756	TGTTTGGG GGCTAGCTACAACGA AAAGAATT	33138
4073	6957	AACAAACU G CUUAUGUC	12757	GACATAAG GGCTAGCTACAACGA AGTTTGT	33139
4079	6951	CUGCUUUAU G UCACUCUU	12758	AAGAGTGA GGCTAGCTACAACGA ATAAGCAG	33140
4089	6941	CACUCUUG G UCUUAUCU	12759	AGATAAGA GGCTAGCTACAACGA CAAGAGTG	33141
4099	6931	CUUAUCUA G CCAACCCA	12760	TGGGTTGG GGCTAGCTACAACGA TAGATAAG	33142
4112	6918	CCCAUCUC G UUGGCUGC	12761	GCAGCCAA GGCTAGCTACAACGA GAGATGGG	33143
4116	6914	UCUCGUUG G CUGCCACU	12762	AGTGGCAG GGCTAGCTACAACGA CAACGAGA	33144
4119	6911	CGUUGGCU G CCACUGCG	12763	CGCAGTGG GGCTAGCTACAACGA AGCCAACG	33145
4125	6905	CUGCCACU G CGCUCACA	12764	TGTGAGCG GGCTAGCTACAACGA AGTGGCAG	33146
4127	6903	GCCACUGC G CUCACAAG	12765	CTTGTGAG GGCTAGCTACAACGA GCAGTGGC	33147
4137	6893	UCACAAGG G UCAUGACA	12766	TGTCATGA GGCTAGCTACAACGA CTTTGTGA	33148
4161	6869	GGAACACG G CUAGCUGG	12767	CCAGCTAG GGCTAGCTACAACGA CGTGTTC	33149
4165	6865	CACGGCUA G CUGGUUGU	12768	ACAACCAG GGCTAGCTACAACGA TAGCCGTG	33150
4169	6861	GCUAGCUG G UUGUCUGU	12769	ACAGACAA GGCTAGCTACAACGA CAGTAGC	33151
4172	6858	AGCUGGUU G UCUGUCUG	12770	CAGACAGA GGCTAGCTACAACGA AACAGCT	33152
4176	6854	GGUUGUCU G UCUGCGAA	12771	TTCCGAGA GGCTAGCTACAACGA AGACAACC	33153
4180	6850	GUCUGUCU G CGAACGUU	12772	AACGTTTC GGCTAGCTACAACGA AGACAGAC	33154
4186	6844	CUGCGAAC G UUGCUUCU	12773	AGAAGCAA GGCTAGCTACAACGA GTTCGCAG	33155
4189	6841	CGAACGUU G CUUCUCUG	12774	CAGAGAAG GGCTAGCTACAACGA AACGTTTC	33156
4198	6832	CUUCUCUG G CUCAGGAA	12775	TTCTGAG GGCTAGCTACAACGA CAGAGAAG	33157
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4237	6793	GGAGAGCA G CAACAUUC	12778	GAATGTTG GGCTAGCTACAACGA CGCTCTCC	33160
4248	6782	ACAUUCCG G CGAUCUUC	12779	GAAGATCG GGCTAGCTACAACGA CGGAATGT	33161
4257	6773	CGAUCUUC G UUCCUGGA	12780	TCCAGGAA GGCTAGCTACAACGA GAAGATCG	33162
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4290	6740	AGAAAAAG G UCGCGACU	12782	AGTCGCGA GGCTAGCTACAACGA CTTTTTCT	33164
4293	6737	AAAAGGUC G CGACUCCC	12783	GGGAGTCG GGCTAGCTACAACGA GACCTTTT	33165
4308	6722	CCAAGACA G CGCCUCCC	12784	GGGAGGCG GGCTAGCTACAACGA TGTCTTGG	33166
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4334	6696	UUUCCAAU G CCCUCCG	12786	CGGAAGGG GGCTAGCTACAACGA ATTGGAAA	33168
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4345	6685	CUUCCGCU G CAUGAGGA	12788	TCCTCATG GGCTAGCTACAACGA AGCGGAAG	33170
4371	6659	CUCCCAUG G UCAUCACA	12789	TGTGATGA GGCTAGCTACAACGA CATGGGAG	33171
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4434	6596	CCUCCAGG G CCAUUCUG	12796	CAGAATGG GGCTAGCTACAACGA CCTGGAGG	33178
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4485	6545	CGUACAUG G UGUCAAGU	12803	ACTTGACA GGCTAGCTACAACGA CATGTACG	33185
4487	6543	UACAUGGU G UCAAGUGC	12804	GCATTGA GGCTAGCTACAACGA ACCATGTA	33186
4492	6538	GGUGUCAA G UGCUUCCC	12805	GGGAAGCA GGCTAGCTACAACGA TTGACACC	33187
4494	6536	UGUCAAGU G CUUCCCAU	12806	ATGGGAAG GGCTAGCTACAACGA ACTTGACA	33188
4503	6527	CUUCCCAU G UCUUCCCC	12807	GGGGAAGA GGCTAGCTACAACGA ATGGGAAG	33189
4517	6513	CCCAUGAA G UGCUCAGG	12808	CCTGAGCA GGCTAGCTACAACGA TTCATGGG	33190
4519	6511	CAUGAAGU G CUCAGGCA	12809	TGCCTGAG GGCTAGCTACAACGA ACTTCATG	33191
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4575	6455	UUCCCGAG G CGAAGUCC	12813	GGACTTCG GGCTAGCTACAACGA CTCGGGAA	33195
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4590	6440	CCUUGAAC G CCUUUAGU	12815	ACTAAAGG GGCTAGCTACAACGA GTTCAAGG	33197
4597	6433	CGCCUUUA G UGCCUGGU	12816	ACCAGGCA GGCTAGCTACAACGA TAAAGGCG	33198
4599	6431	CCUUUAGU G CCUGGUGA	12817	TCACCAGG GGCTAGCTACAACGA ACTAAAGG	33199
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4636	6394	AAUCCAGC G CGGCCUCA	12823	TGAGGCCG GGCTAGCTACAACGA GCTGGATT	33205
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4663	6367	UUCACCAA G CUUCGUGA	12825	TCACGAAG GGCTAGCTACAACGA TTGGTGAA	33207
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4685	6345	UCCACUUC G UUGUUGUC	12827	GACAACAA GGCTAGCTACAACGA GAAGTGGA	33209
4688	6342	ACUUCGUU G UUGUCUUC	12828	GAAGACAA GGCTAGCTACAACGA AACGAAGT	33210
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4739	6291	CACCUCGG G UCGUGGUA	12834	TACCACGA GGCTAGCTACAACGA CGGAGGTG	33216
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4789	6241	CCAAACUG G CAGAUCUG	12843	CAGATCTG GGCTAGCTACAACGA CAGTTTGG	33225
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4863	6167	CAUCCAUG G UAUUACC	12850	GGTATATA GGCTAGCTACAACGA CATGGATG	33232
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4889	6141	UCUGGUUG G UAGAAUUG	12853	CAATTCTA GGCTAGCTACAACGA CAACCAGA	33235
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4915	6115	UCCGUUUG G CAUGUUGA	12857	TCAACATG GGCTAGCTACAACGA CAAACGGA	33239
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5611	5419	AGACAUCA G CCUGUGGG	12942	CCCACAGG GGCTAGCTACAACGA TGATGTCT	33324
5615	5415	AUCAGCCU G UGGGUGAG	12943	CTCACCCA GGCTAGCTACAACGA AGGCTGAT	33325
5619	5411	GCCUGUGG G UGAGGGUA	12944	TACCTCTCA GGCTAGCTACAACGA CCACAGGC	33326
5625	5405	GGGUGAGG G UAGCAUGA	12945	TCATGCTA GGCTAGCTACAACGA CCTCACCC	33327
5628	5402	UGAGGGUA G CAUGACAC	12946	GTGTCATG GGCTAGCTACAACGA TACCTCTCA	33328
5665	5365	UCCAUAU G UUCUCUGG	12947	CCAGAGAA GGCTAGCTACAACGA ATAATGGA	33329
5674	5356	UUCUCUGG G CACUGCGG	12948	CCGCAGTG GGCTAGCTACAACGA CCAGAGAA	33330
5679	5351	UGGGCACU G CGGAUGUC	12949	GACATCCG GGCTAGCTACAACGA AGTGCCCA	33331
5685	5345	CUGCGGAU G UCUGGUAC	12950	GTACCAGA GGCTAGCTACAACGA ATCCGCAG	33332
5690	5340	GAUGUCUG G UACCGGAU	12951	ATCCGGTA GGCTAGCTACAACGA CAGACATC	33333
5701	5329	CCGGAUGG G CAGUCCUC	12952	GAGGACTG GGCTAGCTACAACGA CCATCCGG	33334
5704	5326	GAUGGGCA G UCCUCUCA	12953	TGAGAGGA GGCTAGCTACAACGA TGCCCATC	33335
5713	5317	UCCUCUCA G UGCUUCAG	12954	CTGAAGCA GGCTAGCTACAACGA TGAGAGGA	33336
5715	5315	CUCUCAGU G CUUCAGCC	12955	GGTGGAAG GGCTAGCTACAACGA ACTGAGAG	33337
5721	5309	GUGCUUCA G CCAUCUCA	12956	TGAGATGG GGCTAGCTACAACGA TGAAGCAC	33338
5730	5300	CCAUCUCA G CAGCCACA	12957	TGTGGCTG GGCTAGCTACAACGA TGAGATGG	33339
5733	5297	UCUCAGCA G CCACAACC	12958	GGTGTGGG GGCTAGCTACAACGA TGCTGAGA	33340
5745	5285	CAACCCUG G UUGGUGCU	12959	AGCACCAA GGCTAGCTACAACGA CAGGGTTG	33341
5749	5281	CCUGGUUG G UGCUAGCA	12960	TGCTAGCA GGCTAGCTACAACGA CAACGAGG	33342
5751	5279	UGGUUGGU G CUAGCACG	12961	CGTGCTAG GGCTAGCTACAACGA ACCAACCA	33343
5755	5275	UGGUGCUA G CACGGCUG	12962	CAGCCGTG GGCTAGCTACAACGA TAGCACCA	33344
5760	5270	CUAGCACG G CUGUUCUC	12963	GAGAACAG GGCTAGCTACAACGA CGTGCTAG	33345
5763	5267	GCACGGCU G UUCUCAGU	12964	ACTGAGAA GGCTAGCTACAACGA AGCCGTGC	33346
5770	5260	UGUUCUCA G UCUUCUGU	12965	ACAGAAGA GGCTAGCTACAACGA TGAGAACA	33347
5777	5253	AGUCUUCU G UUUUUGGC	12966	GCCATAAA GGCTAGCTACAACGA AGAAGACT	33348
5784	5246	UGUUUAUG G CCUCUUUG	12967	CAAGAGGG GGCTAGCTACAACGA CATAAACA	33349
5800	5230	GAUGAUCU G UGGCAGAA	12968	TTCTGCCA GGCTAGCTACAACGA AGATCATC	33350
5803	5227	GAUCUGUG G CAGAAUCC	12969	GGATTCTG GGCTAGCTACAACGA CACAGATC	33351
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5826	5204	UUUUACCG G CGCCGGGA	12971	TCCCGGCG GGCTAGCTACAACGA CGGTAAAA	33353
5828	5202	UUACCGGC G CCGGGAUG	12972	CATCCCGG GGCTAGCTACAACGA GCCGGTAA	33354
5845	5185	GAGAUCCA G UACAGUGA	12973	TCACTGTA GGCTAGCTACAACGA TGGATCTC	33355
5850	5180	CCAGUACA G UGAUCUGU	12974	ACAGATCA GGCTAGCTACAACGA TGTACTGG	33356
5857	5173	AGUGAUCU G UUUUUUCC	12975	GGAAAAAA GGCTAGCTACAACGA AGATCACT	33357
5869	5161	UUUCCUCA G CAUCUCAG	12976	CTGAGATG GGCTAGCTACAACGA TGAGGAAA	33358
5878	5152	CAUCUCAG G UUCGAUUC	12977	GATTGCAA GGCTAGCTACAACGA CTGAGATG	33359
5889	5141	CGAAUCCG G CUGGGAUU	12978	AATCCGAG GGCTAGCTACAACGA CGGATTCTG	33360
5899	5131	UGGGAUUG G CUCAUCCA	12979	TGGATGAG GGCTAGCTACAACGA CAATCCCA	33361
5920	5110	UUCACCCU G CACUAUCG	12980	CGATAGTG GGCTAGCTACAACGA AGGGTGAA	33362
5928	5102	GCACUAUC G CGCUUAUG	12981	CATAAGCG GGCTAGCTACAACGA GATAGTGC	33363
5930	5100	ACUAUCCG G CUUAUGUA	12982	TACATAAG GGCTAGCTACAACGA GCGATAGT	33364
5936	5094	GCGCUUAU G UAUGAGCC	12983	GGCTCATA GGCTAGCTACAACGA ATAAGCGC	33365
5942	5088	AUGUAUGA G CCGUUGGG	12984	CCCAACGG GGCTAGCTACAACGA TCATACAT	33366
5945	5085	UAUGAGCC G UUGGGCAU	12985	ATGCCCAA GGCTAGCTACAACGA GGCTCATA	33367
5950	5080	GCCGUUGG G CAUUAUGA	12986	TCATAATG GGCTAGCTACAACGA CCAACGGC	33368
5966	5064	ACUCCAUI G CCAUAAAG	12987	CTTTATGG GGCTAGCTACAACGA AATGGAGT	33369
5974	5056	GCCAUAUA G CCCAUAUA	12988	TGATTGGG GGCTAGCTACAACGA TTTATGGC	33370
5990	5040	ACAUCACC G UUUUUGUC	12989	GACAAAAA GGCTAGCTACAACGA GGTGATGT	33371
5996	5034	CCGUUUUU G UCCACUAU	12990	ATAGTGGA GGCTAGCTACAACGA AAAAACGG	33372
6007	5023	CACUAUUG G UGAGCCTG	12991	CAGGCTCA GGCTAGCTACAACGA CAATAGTG	33373
6011	5019	AUUGGUGA G CCUGAUGU	12992	ACATCAGG GGCTAGCTACAACGA TCACCAAT	33374
6018	5012	AGCCUGAU G UCCAGUG	12993	CATTGGAA GGCTAGCTACAACGA ATCAGGCT	33375
6024	5006	AUGUCCA G UGGGGGAA	12994	CTTCCCCA GGCTAGCTACAACGA TGGAACT	33376
6032	4998	GUGGGGAA G UCCAAAGU	12995	ACTTTGGA GGCTAGCTACAACGA TTCCCCAC	33377
6039	4991	AGUCCAAA G UCACGGCC	12996	GGCCGTGA GGCTAGCTACAACGA TTTGGACT	33378
6045	4985	AAGUCACG G CCCCGAUU	12997	AATCGGGG GGCTAGCTACAACGA CGTGACTT	33379
6064	4966	UCCUCAG G UGUUUUGA	12998	TCAAAACA GGCTAGCTACAACGA CTGAAGGA	33380
6066	4964	CUUCAGGU G UUUUGAAC	12999	GTTCAAAA GGCTAGCTACAACGA ACCTGAAG	33381

6082	4948	CACCCUG G UUUCGUCU	13000	AGACGAAA GGCTAGCTACAACGA CAGGGGTG	33382
6087	4943	CUGGUUUC G UCUGGACG	13001	CGTCCAGA GGCTAGCTACAACGA GAAACCAG	33383
6095	4935	GUCUGGAC G UUCUUAAC	13002	GTTAAGAA GGCTAGCTACAACGA GTCCAGAC	33384
6104	4926	UUCUUAAC G UUCUUGCC	13003	GGCAAGAA GGCTAGCTACAACGA GTTAAGAA	33385
6110	4920	ACGUUCUU G CCAGGUUC	13004	GAACCTGG GGCTAGCTACAACGA AAGAACGT	33386
6115	4915	CUUGCCAG G UUCCACCA	13005	TGTTGGAA GGCTAGCTACAACGA CTGGCAAG	33387
6133	4897	AAUCAUCU G CACCUCAU	13006	ATGAGGTG GGCTAGCTACAACGA AGATGATT	33388
6145	4885	CUCAUCCU G CCCGUUCC	13007	GGAACGGG GGCTAGCTACAACGA AGGATGAG	33389
6149	4881	UCCUGCCC G UUCCACUU	13008	AAGTGGAA GGCTAGCTACAACGA GGGCAGGA	33390
6158	4872	UUCCACUU G UGCUGCAA	13009	TTGCAGCA GGCTAGCTACAACGA AAGTGGAA	33391
6160	4870	CCACUUGU G CUGCAAUU	13010	AATTGCAG GGCTAGCTACAACGA ACAAGTGG	33392
6163	4867	CUUGUGCU G CAUUUCC	13011	GGAAATTG GGCTAGCTACAACGA AGCACAAG	33393
6175	4855	UUUCCAGG G UCCUCGU	13012	ACGGAGGA GGCTAGCTACAACGA CCTGGAAA	33394
6182	4848	GGUCCUCC G UAACAAAG	13013	CTTTGTTA GGCTAGCTACAACGA GGAGGACC	33395
6190	4840	GUAACAAA G UCGAUCCU	13014	AGGATCGA GGCTAGCTACAACGA TTTGTAC	33396
6209	4821	UUGACACU G CCCAGUA	13015	TACTGGGG GGCTAGCTACAACGA AGTGTCAA	33397
6215	4815	CUGCCCCA G UAUGGGUC	13016	GACCCATA GGCTAGCTACAACGA TGGGGCAG	33398
6221	4809	CAGUAUGG G UCCAGGCG	13017	CGCTTGA GGCTAGCTACAACGA CCATACTG	33399
6227	4803	GGGUCCAG G CGGCCUC	13018	GAGGGCCG GGCTAGCTACAACGA CTGGACCC	33400
6230	4800	UCCAGGCG G CCCUCUC	13019	GGAGAGGG GGCTAGCTACAACGA CGCTTGA	33401
6239	4791	CCCUCUC G CUCAUCA	13020	TTGATGAG GGCTAGCTACAACGA GGAGAGGG	33402
6249	4781	UCAUCAA G CGGCUCCU	13021	AGGAGCCG GGCTAGCTACAACGA TTTGATGA	33403
6252	4778	UCAAGCG G CUCCUUU	13022	AAAAGGAG GGCTAGCTACAACGA CGCTTTGA	33404
6261	4769	CUCCUUU G UUGUAUGC	13023	GCATACAA GGCTAGCTACAACGA AAAAGGAG	33405
6264	4766	CUUUUGU G UAUGCAA	13024	TTGGCATA GGCTAGCTACAACGA AACAAAAG	33406
6268	4762	UGUUGUUA G CCAAAGG	13025	CCCTTTGG GGCTAGCTACAACGA ATACAACA	33407
6276	4754	GCCAAAGG G UGUGAAA	13026	TTTCCACA GGCTAGCTACAACGA CCTTTGGC	33408
6278	4752	CAAAGGGU G UGGAAC	13027	GTTTTCCA GGCTAGCTACAACGA ACCCTTTG	33409
6302	4728	ACCAUCAC G CCCGCUCC	13028	GGAGCGGG GGCTAGCTACAACGA GTGATGGT	33410
6306	4724	UCACGCC G CUCCUGCU	13029	AGCAGGAG GGCTAGCTACAACGA GGGCGTGA	33411
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6331	4699	GCCGAGCA G CCCACGAG	13033	CTCGTGGG GGCTAGCTACAACGA TGCTCGGC	33415
6339	4691	GCCCACGA G UCAUGAUC	13034	GATCATGA GGCTAGCTACAACGA TCGTGGGC	33416
6350	4680	AUGAUCCU G UAGACGCC	13035	GGCGTCTA GGCTAGCTACAACGA AGGATCAT	33417
6356	4674	CUGUAGAC G CCGGUGGU	13036	ACCACCGG GGCTAGCTACAACGA GTCTACAG	33418
6360	4670	AGACGCCG G UGGUCGUG	13037	CACGACCA GGCTAGCTACAACGA CGGCGTCT	33419
6363	4667	CGCCGGUG G UCGUGUCC	13038	GGACACGA GGCTAGCTACAACGA CACCGGCG	33420
6366	4664	CGGUGGUC G UGUCCCC	13039	GGGGGACA GGCTAGCTACAACGA GACCACCG	33421
6368	4662	GUGGUCGU G UCCCCUU	13040	AAGGGGGA GGCTAGCTACAACGA ACGACCAC	33422
6380	4650	CCCUUUU G UACUCCU	13041	AAGGAGTA GGCTAGCTACAACGA AAAAGGG	33423
6391	4639	CUCCUUUG G UGAGGGAG	13042	CTCCCTCA GGCTAGCTACAACGA CAAAGGAG	33424
6399	4631	GUGAGGGA G UGUCCAC	13043	GTGGGACA GGCTAGCTACAACGA TCCCTCAC	33425
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6413	4617	CACAACAC G CCUCCUCU	13045	AGAGGAGG GGCTAGCTACAACGA GTGTTGTG	33427
6426	4604	CUCUCUU G UGUUUGG	13046	CCAATACA GGCTAGCTACAACGA AAAGAGAG	33428
6428	4602	CUCUUUGU G UAUUGGAG	13047	CTCCAATA GGCTAGCTACAACGA ACAAGAG	33429
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6495	4535	CACUAAUC G CGAGACAG	13054	CTGTCTCG GGCTAGCTACAACGA GATTAGTG	33436
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6532	4498	CUUCCAAG G UGCUCUG	13056	CAGGAGCA GGCTAGCTACAACGA CTGGGAAG	33438
6534	4496	UCCAAGGU G CUCCUGGA	13057	TCCAGGAG GGCTAGCTACAACGA ACCTTGGG	33439
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6580	4450	AUCAAGCC G CACAUCAA	13061	TTGATGTG GGCTAGCTACAACGA GGCTTGAT	33443
6596	4434	ACUCUUUC G CUCGAGCC	13062	GGCTCGAG GGCTAGCTACAACGA GAAGAGT	33444

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6606	4424	UCGAGCCU G UAAUUUCU	13064	AGAAATTA	GGCTAGCTACAACGA AGGCTCGA	33446
6615	4415	UAAUUUCU G CAUCACUU	13065	AAGTGATG	GGCTAGCTACAACGA AGAAATTA	33447
6635	4395	CAGGAAAU G UCCGCCGU	13066	ACGGCGGA	GGCTAGCTACAACGA ATTTCTTG	33448
6639	4391	AAAUGUCC G CCGUUCUC	13067	GAGAACGG	GGCTAGCTACAACGA GGACATT	33449
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6663	4367	ACAUAUUCU G UUGAUUUC	13069	GAAATCAA	GGCTAGCTACAACGA AGATATGT	33451
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6705	4325	UGAGCCCC G CGAUAGUC	13073	GACTATCG	GGCTAGCTACAACGA GGGGCTCA	33455
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6731	4299	GCCAUGGA G UCAAUGUC	13076	GACATTGA	GGCTAGCTACAACGA TCCATGGC	33458
6737	4293	GAGUCAAU G UCAAGCUC	13077	GAGCTTGA	GGCTAGCTACAACGA ATTGACTC	33459
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6765	4265	CGACGAUG G CAAACAUI	13081	AATGTTTG	GGCTAGCTACAACGA CATCGTCG	33463
6776	4254	AACAUIUAG G CCGACAGC	13082	GCTGTCGG	GGCTAGCTACAACGA CTAATGTT	33464
6783	4247	GGCCGACA G CUGUCAUC	13083	GATGACAG	GGCTAGCTACAACGA TGTCGGCC	33465
6786	4244	CGACAGCU G UCAUCACU	13084	AGTGATGA	GGCTAGCTACAACGA AGCTGTCG	33466
6798	4232	UCACUUCA G UUGCGGGC	13085	CCCCGCAA	GGCTAGCTACAACGA TGAAGTGA	33467
6801	4229	CUUCAGUU G CGGGCCAU	13086	ATGGCCCG	GGCTAGCTACAACGA AACTGAAG	33468
6805	4225	AGUUGCGG G CCAUCCGC	13087	GCGGATGG	GGCTAGCTACAACGA CCGCAACT	33469
6812	4218	GGCCAUCG G CGUUUACG	13088	CGTAAACG	GGCTAGCTACAACGA GGATGGCC	33470
6814	4216	CCAUCCGC G UUUACGGU	13089	ACCGTAAA	GGCTAGCTACAACGA GCGGATGG	33471
6821	4209	CGUUUACG G UUGGGAUC	13090	GATCCCAA	GGCTAGCTACAACGA CGTAAACG	33472
6834	4196	GAUCACAU G CAAUCAGU	13091	ACTGATTG	GGCTAGCTACAACGA ATGTGATC	33473
6841	4189	UGCAAUCA G UCCAGCAG	13092	CTGCTGGA	GGCTAGCTACAACGA TGATTGCA	33474
6846	4184	UCAGUCCA G CAGCAAGG	13093	CTTGTCTG	GGCTAGCTACAACGA TGGATGCA	33475
6849	4181	GUCCAGCA G CAAGGAUC	13094	GATCCTTG	GGCTAGCTACAACGA TGCTGGAC	33476
6863	4167	AUCAUGGG G UUGAAAAG	13095	CTTTTCAA	GGCTAGCTACAACGA CCCATGAT	33477
6871	4159	GUUGAAAA G UCCUGUUG	13096	CAACAGGA	GGCTAGCTACAACGA TTTTCAAC	33478
6876	4154	AAAGUCCU G UUGAGGCU	13097	AGCCTCAA	GGCTAGCTACAACGA AGGACTTT	33479
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6888	4142	AGGCUAGA G CCAAGCAU	13099	ATGCTTGG	GGCTAGCTACAACGA TCTAGCCT	33481
6893	4137	AGAGCCAA G CAUAGCAG	13100	CTGCTATG	GGCTAGCTACAACGA TTGGCTCT	33482
6898	4132	CAAGCAUA G CAGACUUG	13101	CAAGTCTG	GGCTAGCTACAACGA TATGCTTG	33483
6906	4124	GCAGACUU G CUCCUUUC	13102	GAAAGGAG	GGCTAGCTACAACGA AAGTCTGC	33484
6921	4109	UCUUUUUU G CAGCUGCA	13103	TGCAGCTG	GGCTAGCTACAACGA AAAAAAGA	33485
6924	4106	UUUUUGCA G CUGCACUC	13104	GAGTGCAG	GGCTAGCTACAACGA TGCAAAAA	33486
6927	4103	UUGCAGCU G CACUCCUC	13105	GAGGAGTG	GGCTAGCTACAACGA AGCTGCAA	33487
6950	4080	CUGAUCAA G CUGCCUUA	13106	ATAGGCAG	GGCTAGCTACAACGA TTGATCAG	33488
6953	4077	AUCAAGCU G CCUAUUC	13107	GGAATAGG	GGCTAGCTACAACGA AGCTTGAT	33489
6973	4057	CAUCAACA G CAGUAUCC	13108	GGATACTG	GGCTAGCTACAACGA TGTTGATG	33490
6976	4054	CAACAGCA G UAUCUGU	13109	ACAGGATA	GGCTAGCTACAACGA TGCTGTTG	33491
6983	4047	AGUAUCCU G UACACAUC	13110	GATGTGTA	GGCTAGCTACAACGA AGGATACT	33492
7001	4029	AGAUUCAA G CAUCUCAG	13111	CTGAGATG	GGCTAGCTACAACGA TTGAATCT	33493
7009	4021	GCAUCUCA G CCCGGGUG	13112	CACCCGGG	GGCTAGCTACAACGA TGAGATGC	33494
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7017	4013	GCCCGGGU G UUAGCAGG	13114	CCTGCTAA	GGCTAGCTACAACGA ACCCGGGC	33496
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7033	3997	GGCUAGCA G CGGAACAA	13118	TTGTTCG	GGCTAGCTACAACGA TGCTAGCC	33500
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7053	3977	CGUUUGAU G UCGUUGUG	13120	CACAACGA	GGCTAGCTACAACGA ATCAAACG	33502
7056	3974	UUGAUGUC G UUGUGAAU	13121	ATTCACAA	GGCTAGCTACAACGA GACATCAA	33503
7059	3971	AUGUCGUU G UGAUUGUU	13122	AACATTCA	GGCTAGCTACAACGA AACGACAT	33504
7065	3965	UUGUGAAU G UUAUGGCU	13123	AGCCATAA	GGCTAGCTACAACGA ATTCACAA	33505
7071	3959	AUGUUAUG G CUCUCAGU	13124	ACTGAGAG	GGCTAGCTACAACGA CATAACAT	33506
7078	3952	GGCUCUCA G UAUCAUCC	13125	GGATGATA	GGCTAGCTACAACGA TGAGAGCC	33507

7089	3941	UCAUCCAA G CUACCGCC	13126	GGCGGTAG GGCTAGCTACAACGA TTGGATGA	33508
7095	3935	AAGCUACC G CCAGUGAA	13127	TTCACTGG GGCTAGCTACAACGA GGTAGCTT	33509
7099	3931	UACCGCCA G UGAAUUA	13128	TGAATTCA GGCTAGCTACAACGA TGGCGGTA	33510
7129	3901	CUCCAGA G CAGAAUU	13129	AAATTCTG GGCTAGCTACAACGA TCTGGGAG	33511
7139	3891	AGAAUUUG G CGGGCAUC	13130	GATGCCCC GGCTAGCTACAACGA CAAATTCT	33512
7143	3887	UUUGGCGG G CAUCGUGA	13131	TCACGATG GGCTAGCTACAACGA CCGCCAAA	33513
7148	3882	CGGGCAUC G UGAUAAGC	13132	GCTTATCA GGCTAGCTACAACGA GATGCCCC	33514
7155	3875	CGUGAUAA G CCAUUUGA	13133	TCAAATGG GGCTAGCTACAACGA TTATCACG	33515
7173	3857	AGAAAACA G CCGCCAAC	13134	GTTGGCGG GGCTAGCTACAACGA TGTTTTCT	33516
7176	3854	AAACAGCC G CCAACAUC	13135	GATGTTGG GGCTAGCTACAACGA GGCTGTTT	33517
7193	3837	AACAAAU G UUCUCCUG	13136	CAGGAGAA GGCTAGCTACAACGA ATTTTGT	33518
7202	3828	UUCUCCUG G UUGGUCCA	13137	TGGACCAA GGCTAGCTACAACGA CAGGAGAA	33519
7206	3824	CCUGGUUG G UCCAUCUC	13138	GAGATGGA GGCTAGCTACAACGA CAACCAGG	33520
7215	3815	UCCAUCUC G CUUUGAGA	13139	TCTCAAAG GGCTAGCTACAACGA GAGATGGA	33521
7230	3800	GAAACGAU G CCACCAUA	13140	TATGGTGG GGCTAGCTACAACGA ATCGTTTC	33522
7246	3784	AAACACUG G UUGUAUCU	13141	AGATACAA GGCTAGCTACAACGA CAGTGT	33523
7249	3781	CACUGGUU G UAUCUUGA	13142	TCAAGATA GGCTAGCTACAACGA AACCAGTG	33524
7260	3770	UCUUGAAG G UCGCCAUG	13143	CATGGCGA GGCTAGCTACAACGA CTTCAAGA	33525
7263	3767	UGAAGGUC G CCAUGAGC	13144	GCTCATGG GGCTAGCTACAACGA GACCTTCA	33526
7270	3760	CGCCAUGA G CGCCAAGU	13145	ACTTGGCG GGCTAGCTACAACGA TCATGGCG	33527
7272	3758	CCAUGAGC G CCAAGUGU	13146	ACACTTGG GGCTAGCTACAACGA GCTCATGG	33528
7277	3753	AGCGCCAA G UGUACCAC	13147	GTGGTACA GGCTAGCTACAACGA TTGGCGCT	33529
7279	3751	CGCCAAGU G UACCACGU	13148	ACGTGGTA GGCTAGCTACAACGA ACTTGGCG	33530
7286	3744	UGUACCAC G UCUCUCC	13149	GGAGGAGA GGCTAGCTACAACGA GTGGTACA	33531
7308	3722	UAGAUUCU G CGAAAGCU	13150	AGCTTTCG GGCTAGCTACAACGA AGAATCTA	33532
7314	3716	CUGCGAAA G CUGCCCCC	13151	GGGGGCAG GGCTAGCTACAACGA TTTGCGAG	33533
7317	3713	CGAAAGCU G CCCCCACC	13152	GGTGGGGG GGCTAGCTACAACGA AGCTTTCG	33534
7337	3693	AUGACAUA G CGUAAACAC	13153	GTGTTACG GGCTAGCTACAACGA TATGTCAT	33535
7339	3691	GACAUAGC G UAACACAU	13154	ATGTGTGA GGCTAGCTACAACGA GCTATGTC	33536
7350	3680	ACACAUCA G UGUAGUA	13155	TACTTACA GGCTAGCTACAACGA TGATGTGT	33537
7352	3678	ACAUCAGU G UAAGUAAU	13156	ATTACTTA GGCTAGCTACAACGA ATTGATGT	33538
7356	3674	CAGUGUAA G UAAUGCCC	13157	GGGCATTA GGCTAGCTACAACGA TTCACTG	33539
7361	3669	UAAGUAAU G CCCCCAAA	13158	TTTGGGGG GGCTAGCTACAACGA ATTACTTA	33540
7381	3649	CAGGACUA G CAGAGCAA	13159	TTGCTCTG GGCTAGCTACAACGA TAGTCTTG	33541
7386	3644	CUAGCAGA G CAUUCAGU	13160	ACTGATTG GGCTAGCTACAACGA TCTGCTAG	33542
7393	3637	AGCAAUCA G UAUAGCUG	13161	CAGCTATA GGCTAGCTACAACGA TGATTGCT	33543
7398	3632	UCAGUAUA G CUGGCAUG	13162	CATGCCAG GGCTAGCTACAACGA TATACTGA	33544
7402	3628	UAUAGCUG G CAUGCUGA	13163	TCAGCATG GGCTAGCTACAACGA CAGCTATA	33545
7406	3624	GCUGGCAU G CUGAUCUU	13164	AAGATCAG GGCTAGCTACAACGA ATGCCAGC	33546
7416	3614	UGAUUCUG G CUGUCCAC	13165	GTGGACAG GGCTAGCTACAACGA CAAGATCA	33547
7419	3611	UCUUGGCU G UCCACCUC	13166	GAGGTGGA GGCTAGCTACAACGA AGCCAAGA	33548
7430	3600	CACCUCUU G CGAAGGAC	13167	GTCTTTCG GGCTAGCTACAACGA AAGAGGTG	33549
7446	3584	CCUCCUGG G UGGCCAAG	13168	CTTGGCCA GGCTAGCTACAACGA CCAGGAGG	33550
7449	3581	CCUGGGUG G CCAAGAAC	13169	GTTCTTGG GGCTAGCTACAACGA CACCAGG	33551
7469	3561	ACCAGAAG G CCCAACUG	13170	CAGTTGGG GGCTAGCTACAACGA CTTCTGGT	33552
7484	3546	UGAAAAGG G UCAAUCAU	13171	ATGATTGA GGCTAGCTACAACGA CCTTTTCA	33553
7497	3533	UCAUAUCA G CAUUAUAA	13172	TTATAATG GGCTAGCTACAACGA TGATATGA	33554
7506	3524	CAUUAUAA G CAUUCACU	13173	AGTGAATG GGCTAGCTACAACGA TTATAATG	33555
7516	3514	AUUCACUU G UGACUGCA	13174	TGCAGTCA GGCTAGCTACAACGA AAGTGAAT	33556
7522	3508	UUGUGACU G CACGAGGG	13175	CCCTCGTG GGCTAGCTACAACGA AGTCACAA	33557
7530	3500	GCACGAGG G UCUUUUA	13176	TGAAAAGA GGCTAGCTACAACGA CCTCGTGC	33558
7543	3487	UUCAUCAU G UCUCUGUG	13177	CACAGAGA GGCTAGCTACAACGA ATGATGAA	33559
7549	3481	AUGUCUCU G UGGUCUGA	13178	TCAGACCA GGCTAGCTACAACGA AGAGACAT	33560
7552	3478	UCUCUGUG G UCUGAUCU	13179	AGATCAGA GGCTAGCTACAACGA CACAGAGA	33561
7577	3453	UACCAACA G CCGCUGUC	13180	GACAGCGG GGCTAGCTACAACGA TGTGGTGA	33562
7580	3450	CAACAGCC G CUGUCAGU	13181	ACTGACAG GGCTAGCTACAACGA GGCTGTTG	33563
7583	3447	CAGCCGCU G UCAGUUUG	13182	CAAAGTGA GGCTAGCTACAACGA AGCGGCTG	33564
7587	3443	CGCUGUCA G UUGGUUAG	13183	CTACCAAA GGCTAGCTACAACGA TGACAGCG	33565
7592	3438	UCAGUUUG G UAGCGCAG	13184	CTGCGCTA GGCTAGCTACAACGA CAACTGTA	33566
7595	3435	GUUUGGUA G CGCAGUGG	13185	CCACTGCG GGCTAGCTACAACGA TACCAAAC	33567
7597	3433	UUGGUAGC G CAGUGGUG	13186	CACCACTG GGCTAGCTACAACGA GCTACCAA	33568
7600	3430	GUAGCGCA G UGGUGGUA	13187	TACCACCA GGCTAGCTACAACGA TGCGCTAC	33569
7603	3427	GCGCAGUG G UGGUAAGG	13188	CCTTACCA GGCTAGCTACAACGA CACTGCGC	33570

7606	3424	CAGUGGUG G UAAGGUGC	13189	GCACCTTA GGCTAGCTACAACGA CACCACTG	33571
7611	3419	GUGGUAAG G UGCAGCUC	13190	GAGCTGCA GGCTAGCTACAACGA CTTACCAC	33572
7613	3417	GGUAAGGU G CAGUCCU	13191	AGGAGCTG GGCTAGCTACAACGA ACCTTACC	33573
7616	3414	AAGGUGCA G CUCCUGCA	13192	TGCAGGAG GGCTAGCTACAACGA TGCACCTT	33574
7622	3408	CAGCUCCU G CAGCACCA	13193	TGGTGTCTG GGCTAGCTACAACGA AGGAGCTG	33575
7625	3405	CUCCUGCA G CACCAAUC	13194	GATTGGTG GGCTAGCTACAACGA TGCAGGAG	33576
7635	3395	ACCAAUCU G UUAUCAAC	13195	GTTGATAA GGCTAGCTACAACGA AGATTGGT	33577
7649	3381	AACUUUCC G CUCUCUGU	13196	ACAGAGAG GGCTAGCTACAACGA GGAAAGTT	33578
7656	3374	CGCUCUCU G UGGUGGUG	13197	CACCACCA GGCTAGCTACAACGA AGAGAGCG	33579
7659	3371	UCUCUGUG G UGGUGCGA	13198	TCGCACCA GGCTAGCTACAACGA CACAGAGA	33580
7662	3368	CUGUGGUG G UGCGAGUG	13199	CACTCGCA GGCTAGCTACAACGA CACCACAG	33581
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7668	3362	UGGUGCGA G UGGCAGGU	13201	ACCTGCCA GGCTAGCTACAACGA TCGCACCA	33583
7671	3359	UGCGAGUG G CAGGUCCA	13202	TGGACCTG GGCTAGCTACAACGA CACTCGCA	33584
7675	3355	AGUGGCAG G UCCACGGU	13203	ACCGTGGG GGCTAGCTACAACGA CTGCCACT	33585
7682	3348	GGUCCACG G UGUCCGCA	13204	TGCGGACA GGCTAGCTACAACGA CGTGGACC	33586
7684	3346	UCCACGGU G UCCGCAGC	13205	GCTGCGGA GGCTAGCTACAACGA ACCGTGGA	33587
7688	3342	CGGUGUCC G CAGCUCUC	13206	GAGAGCTG GGCTAGCTACAACGA GGACACCG	33588
7691	3339	UGUCGCGA G CUCUCACU	13207	AGTGAGAG GGCTAGCTACAACGA TGCGGACA	33589
7704	3326	CACUCAGG G UGACCGUA	13208	TACGGTCA GGCTAGCTACAACGA CCTGAGTG	33590
7710	3320	GGGUGACC G UAGUUCU	13209	AGGAACTA GGCTAGCTACAACGA GGTCACCC	33591
7713	3317	UGACCGUA G UCCUGGG	13210	CCCAGGAA GGCTAGCTACAACGA TACGGTCA	33592
7721	3309	GUUCUGG G CAGUAAUC	13211	GATTACTG GGCTAGCTACAACGA CAGGAAC	33593
7724	3306	CCUGGGCA G UAAUCGAA	13212	TTCGATTA GGCTAGCTACAACGA TGCCGAGG	33594
7733	3297	UAAUCGAA G UCAAUCUC	13213	GAGATTGA GGCTAGCTACAACGA TTCGATTA	33595
7748	3282	UCUACCCG G CCUUCGUC	13214	GACGAAGG GGCTAGCTACAACGA CGGGTAGA	33596
7754	3276	CGGCCUUC G UCCCAUGG	13215	CCATGGGA GGCTAGCTACAACGA GAAGGCCG	33597
7763	3267	UCCCAUGG G CCCUGGU	13216	AACCAGGG GGCTAGCTACAACGA CCATGGGA	33598
7769	3261	GGGCCCUU G UUUUGUGU	13217	ACACAAA GGCTAGCTACAACGA CAGGGCCC	33599
7774	3256	CUGGUUUU G UGUCUUGU	13218	ACAAGACA GGCTAGCTACAACGA AAAACCAG	33600
7776	3254	GGUUUUGU G UCUUGUAC	13219	GTACAAGA GGCTAGCTACAACGA ACAAAACC	33601
7781	3249	UGUGUCUU G UACCCAGG	13220	CCTGGGTA GGCTAGCTACAACGA AAGACACA	33602
7789	3241	GUACCCAG G UCUCGAU	13221	ATCGGAGA GGCTAGCTACAACGA CTGGGTAC	33603
7799	3231	CUCCGAUU G UGAUUGCU	13222	AGCAATCA GGCTAGCTACAACGA AATCGGAG	33604
7805	3225	UUGUGAUU G CUUCGUGG	13223	CCACGAAG GGCTAGCTACAACGA AATCACA	33605
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7813	3217	GCUUCGUG G UCCCGCCA	13225	TGGCGGGA GGCTAGCTACAACGA CACGAAGC	33607
7818	3212	GUGGUCCC G CCAGUGUG	13226	CACACTGG GGCTAGCTACAACGA GGGACCAC	33608
7822	3208	UCCCGCCA G UGUGACUG	13227	CATCACA GGCTAGCTACAACGA TGGCGGGA	33609
7824	3206	CCGCCAGU G UGACUGGU	13228	ACCAGTCA GGCTAGCTACAACGA ACTGCGGG	33610
7831	3199	UGUGACUG G UAUUAUCA	13229	TGATAATA GGCTAGCTACAACGA CAGTCACA	33611
7841	3189	AUUAUCAA G UCACUCUC	13230	GAGAGTGA GGCTAGCTACAACGA TTGATAAT	33612
7862	3168	AUUCCAUC G CCCACAA	13231	TTGTGGGG GGCTAGCTACAACGA GATGGAAT	33613
7872	3158	CCCACAAG G UAUGCSUC	13232	GACGCATA GGCTAGCTACAACGA CTTGTGGG	33614
7876	3154	CAAGGUAU G CGUCUCAG	13233	CTGAGACG GGCTAGCTACAACGA ATACCTTG	33615
7878	3152	AGGUAGUC G UCUCAGGC	13234	GCCTGAGA GGCTAGCTACAACGA GCATACCT	33616
7885	3145	CGUCUCAG G CCACGUAC	13235	GTACGTGG GGCTAGCTACAACGA CTGAGACG	33617
7890	3140	CAGGCCAC G UACAUGAU	13236	ATCATGTA GGCTAGCTACAACGA GTGGCCTG	33618
7917	3113	CCAGAAUC G CCCUUUCA	13237	TGAAAGGG GGCTAGCTACAACGA AGTTCTGG	33619
7927	3103	CCUUUCAA G CUUCCACG	13238	CGTGAAG GGCTAGCTACAACGA TTGAAGG	33620
7935	3095	GCUUCCAC G UAUCAUUG	13239	CAATGATA GGCTAGCTACAACGA GTGGAAGC	33621
7945	3085	AUCAUUGA G CCUGCUUU	13240	AAAGCAGG GGCTAGCTACAACGA TCAATGAT	33622
7949	3081	UUGAGCCU G CUUUCAAU	13241	ATTGAAAG GGCTAGCTACAACGA AGGCTCAA	33623
7970	3060	UAGGACAG G UCACUGUG	13242	CACAGTGA GGCTAGCTACAACGA CTGTCTTA	33624
7976	3054	AGGUCACU G UGGAUCGC	13243	CCGATCCA GGCTAGCTACAACGA AGTGACCT	33625
7983	3047	UGUGGAUC G CCAAGUUG	13244	GCACTTGG GGCTAGCTACAACGA GATCCACA	33626
7988	3042	AUCGCCAA G UUGUUCUU	13245	AAGAACAA GGCTAGCTACAACGA TTGGCGAT	33627
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8001	3029	UCUUGACA G CCGUCCA	13247	TGGAACGG GGCTAGCTACAACGA TGTCAAGA	33629
8004	3026	UGACAGCC G UUCCAAUG	13248	CAATTGGA GGCTAGCTACAACGA GGCTGTCA	33630
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8031	2999	CACAUUCA G UUGUGUUG	13250	CAACACAA GGCTAGCTACAACGA TGAATGTG	33632
8034	2996	AUUCAGUU G UGUUGCUC	13251	GAGCAACA GGCTAGCTACAACGA AACTGAAT	33633

8036	2994	UCAGUUGU G UUGCUCUC	13252	GAGAGCAA GGCTAGCTACAACGA ACAACTGA	33634
8039	2991	GUUGUGUU G CUCUCUCU	13253	AGAGAGAG GGCTAGCTACAACGA AACACAAC	33635
8067	2963	ACAUCCGA G UGCUGGUG	13254	CACCAGCA GGCTAGCTACAACGA TCGGATGT	33636
8069	2961	AUCCGAGU G CUGGUGAG	13255	CTCACCAG GGCTAGCTACAACGA ACTCGGAT	33637
8073	2957	GAGUGCUG G UGAGACCA	13256	TGGTCTCA GGCTAGCTACAACGA CAGCACTC	33638
8105	2925	ACUUCUAA G CUAUUCCA	13257	TGGAATAG GGCTAGCTACAACGA TTAGAAGT	33639
8115	2915	UAUUCCAA G CGCAUUC	13258	GAATCGCG GGCTAGCTACAACGA TTGGAATA	33640
8117	2913	UUCCAAGC G CGAUUCUG	13259	CAGAATCG GGCTAGCTACAACGA GCTTGGAA	33641
8127	2903	GAUUCUGA G UCGGACAU	13260	ATGTCCGA GGCTAGCTACAACGA TCAGAATC	33642
8142	2888	AUCCUUG G UCUCGGGA	13261	TCCGGAGA GGCTAGCTACAACGA CAAGGAAT	33643
8166	2864	CCACAAAG G UGUUGUUG	13262	CAACAACA GGCTAGCTACAACGA CTTTGTGG	33644
8168	2862	ACAAAGGU G UUGUUGGC	13263	GCCAACAA GGCTAGCTACAACGA ACCTTTGT	33645
8171	2859	AAGGUGUU G UUGGCGAG	13264	CTCGCCAA GGCTAGCTACAACGA AACACCTT	33646
8175	2855	UGUUGUUG G CGAGUUCU	13265	AGAACTCG GGCTAGCTACAACGA CAACAACA	33647
8179	2851	GUUGGCGA G UUCUGGUG	13266	CACCAGAA GGCTAGCTACAACGA TCGCCAAC	33648
8185	2845	GAGUUCUG G UGCAAAUA	13267	TATTTGCA GGCTAGCTACAACGA CAGAATC	33649
8187	2843	GUUCUGGU G CAAAUAAA	13268	TTTATTTG GGCTAGCTACAACGA ACCAGAAC	33650
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8219	2811	GCCUCCA G CCAAUUUC	13270	GAAATTGG GGCTAGCTACAACGA TGGAAGGC	33652
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8241	2789	UUUCCGUG G UGGCGGUG	13272	CACCGCCA GGCTAGCTACAACGA CACGGAAA	33654
8244	2786	CCGUGGUG G CGGUGAGG	13273	CCTCACC GGGTAGCTACAACGA CACCACGG	33655
8247	2783	UGGUGGCG G UGAGGCGU	13274	ACGCCTCA GGCTAGCTACAACGA CACCACCA	33656
8252	2778	GCGGUGAG G CGUUUAGG	13275	CCTAAACG GGCTAGCTACAACGA CTCACCGC	33657
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8260	2770	GCGUUUAG G UGCUGACU	13277	AGTCAGCA GGCTAGCTACAACGA CTAACGCG	33659
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8270	2760	GCUGACUU G UACAUUCC	13279	GGAAATGA GGCTAGCTACAACGA AAGTCAGC	33661
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8331	2699	UCAAAGA G UGUUCAGC	13282	GCTGAACA GGCTAGCTACAACGA CTCTTTGA	33664
8333	2697	AAAAGAGU G UUCAGCUC	13283	GAGCTGAA GGCTAGCTACAACGA ACTCTTTT	33665
8338	2692	AGUGUUCA G CUCGUCCU	13284	AGGACGAG GGCTAGCTACAACGA TGAACACT	33666
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8352	2678	CCUUCACU G CUUCCAC	13286	GTGGGAAG GGCTAGCTACAACGA AGTGAAGG	33668
8368	2662	CAUUGAU G CUCCAGUC	13287	GACTGGAG GGCTAGCTACAACGA ATCAAATG	33669
8374	2656	AUGCUCUA G UCUGGAAA	13288	TTTCCAGA GGCTAGCTACAACGA TGGAGCAT	33670
8389	2641	AACUGAUC G UAGACCGC	13289	GCGGTCTA GGCTAGCTACAACGA GATCAGTT	33671
8396	2634	CGUAGACC G CACACUCC	13290	GGAGTGTG GGCTAGCTACAACGA GGTCTACG	33672
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8433	2597	UGAUCUUG G CUAGGCCU	13292	AGGCCTAG GGCTAGCTACAACGA CAAGATCA	33674
8438	2592	UUGGCUAG G CCUUGUGG	13293	CCACAAGG GGCTAGCTACAACGA CTAGCCAA	33675
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8446	2584	GCCUUGUG G CGUUUCAG	13295	CTGAAACG GGCTAGCTACAACGA CACAAGGC	33677
8448	2582	CUUGUGGC G UUCAGGG	13296	CCCTGAAA GGCTAGCTACAACGA GCCACAAG	33678
8456	2574	GUUUCAGG G UAAUACUU	13297	AAGTATTA GGCTAGCTACAACGA CCTGAAAC	33679
8465	2565	UAAUACUU G UACCGGUC	13298	GACCGGTA GGCTAGCTACAACGA AAGTATTA	33680
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8481	2549	CCAUCCAA G CCUCCACA	13300	TGTGGAGG GGCTAGCTACAACGA TTGGATGG	33682
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8534	2496	UCUUGCCG G CUGAUGUC	13305	GACATCAG GGCTAGCTACAACGA CGGCAAGA	33687
8540	2490	CGGCUGAU G UCUAUGGC	13306	GCCATAGA GGCTAGCTACAACGA ATCAGCCG	33688
8547	2483	UGUCUAG G CACACCCA	13307	TGGGTGTG GGCTAGCTACAACGA CATAGACA	33689
8556	2474	CACACCCA G UGUCAGCG	13308	CGCTGACA GGCTAGCTACAACGA TGGGTGTG	33690
8558	2472	CACCCAGU G UCAGCGUG	13309	CACGCTGA GGCTAGCTACAACGA ACTGGGTG	33691
8562	2468	CAGUGUCA G CGUGCACG	13310	CGTGCACG GGCTAGCTACAACGA TGACACTG	33692
8564	2466	GUGUCAGC G UGCACGUU	13311	AACGTGCA GGCTAGCTACAACGA GCTGACAC	33693
8566	2464	GUCAGCGU G CACGUUCA	13312	TGAACGTG GGCTAGCTACAACGA ACGCTGAC	33694
8570	2460	GCGUGCAC G UUCACGGA	13313	TCCGTGAA GGCTAGCTACAACGA GTGCACGC	33695
8587	2443	GAGGAAGA G CAGAACUC	13314	GAGTTCTG GGCTAGCTACAACGA TCTTCCTC	33696

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8619	2411	ACGUGAGA G CUAUGGAC	13317	GTCCATAG GGCTAGCTACAACGA TCTCACGT	33699
8637	2393	UAUCACGA G CAUUGAUG	13318	CATCAATG GGCTAGCTACAACGA TCGTGATA	33700
8645	2385	GCAUUGAU G CCCAUCCA	13319	TGGATGGG GGCTAGCTACAACGA ATCAATGC	33701
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8671	2359	AGCCCCA G CAAUCCUU	13321	AAGGATTG GGCTAGCTACAACGA TGGGGGCT	33703
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8682	2348	AUCCUUGC G UUAUCCAG	13323	CTGGATAA GGCTAGCTACAACGA GCAAGGAT	33705
8696	2334	CAGGACAU G CCUCCGAA	13324	TTCCGAGG GGCTAGCTACAACGA ATGTCCTG	33706
8707	2323	UCCGAACA G UGAGCGGA	13325	TCCGCTCA GGCTAGCTACAACGA TGTTCCGA	33707
8711	2319	AACAGUGA G CGGAUUGC	13326	GCATTCCG GGCTAGCTACAACGA TCACTGTT	33708
8718	2312	AGCGGAU G CUCCUCCG	13327	CGGAGGAG GGCTAGCTACAACGA ATTCCGCT	33709
8742	2288	GAUGGACA G CCUCCCA	13328	TGGGAAGG GGCTAGCTACAACGA TGTCATC	33710
8757	2273	CAACUGAG G UGAACACC	13329	GGTGTTCG GGCTAGCTACAACGA CTCAGTTG	33711
8783	2247	GAUCCAAA G UCCCAAGC	13330	GCTTGGGA GGCTAGCTACAACGA TTTGGATC	33712
8790	2240	AGUCCCAA G CUGUGUCU	13331	AGACACAG GGCTAGCTACAACGA TTGGGACT	33713
8793	2237	CCCAAGCU G UGUUCCU	13332	AGGAGACA GGCTAGCTACAACGA AGCTTGGG	33714
8795	2235	CAAGCUGU G UCUCUAG	13333	CTAGGAGA GGCTAGCTACAACGA ACAGCTTG	33715
8805	2225	CUCCUAGA G CGGCUAGU	13334	ACTAGCCG GGCTAGCTACAACGA TCTAGGAG	33716
8808	2222	CUAGAGCG G CUAGUCUC	13335	GAGACTAG GGCTAGCTACAACGA CGCTCTAG	33717
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8818	2212	UAGUCUCU G CGCUCUU	13337	AAGGAGCG GGCTAGCTACAACGA AGAGACTA	33719
8820	2210	GUCUCUGC G CUCCUUG	13338	CAAAGGAG GGCTAGCTACAACGA CGCAGAGAC	33720
8832	2198	CUUUGAGG G UGUUGUA	13339	TACAACCA GGCTAGCTACAACGA CCTCAAAG	33721
8835	2195	UGAGGGUG G UUGUAAAG	13340	CTTTACAA GGCTAGCTACAACGA CACCTCA	33722
8838	2192	GGGUGGUU G UAAAGGCU	13341	AGCCTTTA GGCTAGCTACAACGA AACCAACC	33723
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8849	2181	AAGGCUUU G CCAUUGCU	13343	AGCATTGG GGCTAGCTACAACGA AAGCCTT	33725
8855	2175	UUGCCAAU G CUGCUUCC	13344	GGAAGCAG GGCTAGCTACAACGA ATTGGCAA	33726
8858	2172	CCAAUGCU G CUUCCAGA	13345	TCTGGAAG GGCTAGCTACAACGA AGCATTTG	33727
8870	2160	CCAGACUU G UGCCAAUG	13346	CATTGGCA GGCTAGCTACAACGA AAGTCTGG	33728
8872	2158	AGACUUGU G CCAUUGGU	13347	ACCATTGG GGCTAGCTACAACGA ACAAGTCT	33729
8879	2151	UGCCAAUG G UGAUUGAU	13348	ATCAATCA GGCTAGCTACAACGA CATTGGCA	33730
8890	2140	AUUGAUCU G UUGUUCUC	13349	GAGAACAA GGCTAGCTACAACGA AGATCAAT	33731
8893	2137	GAUCUGUU G UUCUCCUC	13350	GAGGAGAA GGCTAGCTACAACGA AACAGATC	33732
8903	2127	UCUCCUCU G CCCACCAC	13351	GTGGTGGG GGCTAGCTACAACGA AGAGGAGA	33733
8915	2115	ACCACUAAU G UAUGAGUC	13352	GACTCATA GGCTAGCTACAACGA ATAGTGGT	33734
8921	2109	AUGUAUGA G UCUCCAA	13353	TTTGGAGA GGCTAGCTACAACGA TCATACAT	33735
8932	2098	UCCAAAGG G UGGUCCA	13354	TGGAACCA GGCTAGCTACAACGA CCTTTGGA	33736
8935	2095	AAAGGGUG G UUCCAAU	13355	AATTGGAA GGCTAGCTACAACGA CACCTTTT	33737
8958	2072	GGACCUUA G CGUUGGCC	13356	GGCCAACG GGCTAGCTACAACGA TAAGGTCC	33738
8960	2070	ACCUUAGC G UUGGCCGU	13357	ACGGCCAA GGCTAGCTACAACGA GCTAAGGT	33739
8964	2066	UAGCGUUG G CCGUGGCC	13358	GGCCACGG GGCTAGCTACAACGA CAACGCTA	33740
8967	2063	CGUUGGCC G UGGCCACU	13359	AGTGGCCA GGCTAGCTACAACGA GGCCAACG	33741
8970	2060	UGGCCGUG G CCACUGAA	13360	TTCACTGG GGCTAGCTACAACGA CACGGCCA	33742
8987	2043	ACAAAAGG G UUGACAGU	13361	ACTGTCAA GGCTAGCTACAACGA CCTTTTGT	33743
8994	2036	GGUUGACA G UGACCAAU	13362	ATTGGTCA GGCTAGCTACAACGA TGTC AAC	33744
9005	2025	ACCAAUCU G CCCACUGG	13363	CCAGTGGG GGCTAGCTACAACGA AGATTGGT	33745
9013	2017	GCCCACUG G CGUUAGGU	13364	ACCTAACG GGCTAGCTACAACGA CAGTGGGC	33746
9015	2015	CCACUGGC G UUAGGUCG	13365	CGACCTAA GGCTAGCTACAACGA GCCAGTGG	33747
9020	2010	GGCGUUG G UCGUUCAA	13366	TTGAACGA GGCTAGCTACAACGA CTAACGCC	33748
9023	2007	GUUAGGUC G UUCAUGA	13367	TCATTGAA GGCTAGCTACAACGA GACCTAAC	33749
9033	1997	UCAAUGAA G CCACUGAC	13368	GTCAGTGG GGCTAGCTACAACGA TTCAATTGA	33750
9056	1974	GGAAACUU G CAAGGUCC	13369	GGACCTTG GGCTAGCTACAACGA AAGTTCC	33751
9061	1969	UUUGCAAG G UCCAUCGG	13370	CGGATGGA GGCTAGCTACAACGA CTTGCAAA	33752
9069	1961	GUCCAUCG G UGCCAGUG	13371	CACTGGCA GGCTAGCTACAACGA GGATGGAC	33753
9071	1959	CCAUCCGU G CCAGUGUA	13372	TACACTGG GGCTAGCTACAACGA ACGGATGG	33754
9075	1955	CCGUGCCA G UGUACUGC	13373	GCAGTACA GGCTAGCTACAACGA TGCCACGG	33755
9077	1953	GUGCCAGU G UACUGCAA	13374	TTGCAGTA GGCTAGCTACAACGA ACTGGCAC	33756
9082	1948	AGUGUACU G CAAUCCA	13375	TGGAATTG GGCTAGCTACAACGA AGTACACT	33757
9099	1931	ACACCACA G UGCCGUGA	13376	TCACGGCA GGCTAGCTACAACGA TGTTGGTG	33758
9101	1929	ACCACAGU G CCGUGACC	13377	GGTCACGG GGCTAGCTACAACGA ACTGTGGT	33759

9104	1926	ACAGUGCC G UGACCUGU	13378	ACAGGTCA GGCTAGCTACAACGA GGCACGTG	33760
9111	1919	CGUGACCU G UGUCUGCG	13379	CGCAGACA GGCTAGCTACAACGA AGGTCACG	33761
9113	1917	UGACCUGU G UCUGCGGG	13380	CCC GCAGA GGCTAGCTACAACGA ACAGGTCA	33762
9117	1913	CUGUGUCU G CGGGAGUC	13381	GACTCCCG GGCTAGCTACAACGA AGACACAG	33763
9123	1907	CUGCGGGA G UCCCAAGA	13382	TCTTGGGA GGCTAGCTACAACGA TCCGCAG	33764
9141	1889	ACUUGAAA G CCUUUGAA	13383	TTCAAAGG GGCTAGCTACAACGA TTTCAAGT	33765
9155	1875	GAACAGAC G CCAUAGGU	13384	ACCTATGG GGCTAGCTACAACGA GTCTGTTC	33766
9162	1868	CGCCAUAG G UUGUCCC	13385	GGGAACAA GGCTAGCTACAACGA CTATGGCG	33767
9165	1865	CAUAGGUU G UUCCCUUC	13386	GAAGGGAA GGCTAGCTACAACGA AACCTATG	33768
9178	1852	CUUCAACU G CAAUUUUU	13387	AAAAATTG GGCTAGCTACAACGA AGTTGAAG	33769
9219	1811	GACCCGAC G UCAACUUG	13388	CAAGTTGA GGCTAGCTACAACGA GTCGGGTC	33770
9231	1799	ACUUGACA G UGUUGCUU	13389	AAGCAACA GGCTAGCTACAACGA TGTCAAGT	33771
9233	1797	UUGACAGU G UUGCUUGA	13390	TCAAGCAA GGCTAGCTACAACGA ACTGTCAA	33772
9236	1794	ACAGUGUU G CUUGAAAA	13391	TTTTCAAG GGCTAGCTACAACGA AACACTGT	33773
9258	1772	CAGGAAUG G CUCCAGCC	13392	GGCTGGAG GGCTAGCTACAACGA CATTGCTG	33774
9264	1766	UGGCUCCA G CCAAAGCU	13393	AGCTTTGG GGCTAGCTACAACGA TGGAGCCA	33775
9270	1760	CAGCCAAA G CUUGAUGC	13394	GCATCAAG GGCTAGCTACAACGA TTTGGCTG	33776
9277	1753	AGCUUGAU G CAGAGCUC	13395	GAGCTCTG GGCTAGCTACAACGA ATCAAGCT	33777
9282	1748	GAUGCAGA G CUCCUCU	13396	AGAGGGAG GGCTAGCTACAACGA TCTGCATC	33778
9292	1738	UCCUCUUG G UGAGCCCA	13397	TGGGCTCA GGCTAGCTACAACGA AAGAGGGA	33779
9296	1734	UCUUGUGA G CCCAUGC	13398	GCATTGGG GGCTAGCTACAACGA TCACAAGA	33780
9303	1727	AGCCCAAU G CUAUCACA	13399	TGTGATAG GGCTAGCTACAACGA ATTGGGCT	33781
9316	1714	CACAGACU G CUUCGUGG	13400	CCACGAAG GGCTAGCTACAACGA AGTCTGTG	33782
9321	1709	ACUGCUUC G UGGCGUGU	13401	ACACGCCA GGCTAGCTACAACGA GAAGCAGT	33783
9324	1706	GCUCGUG G CGUGUGGU	13402	ACCACACG GGCTAGCTACAACGA CACGAAGC	33784
9326	1704	UUCGUGGC G UGUGGUUC	13403	GAACCACA GGCTAGCTACAACGA GCCACGAA	33785
9328	1702	CGUGGCGU G UGGUUCU	13404	AGGAACCA GGCTAGCTACAACGA ACGCCACG	33786
9331	1699	GGCGUGUG G UUCCUCA	13405	TTGAGGAA GGCTAGCTACAACGA CACACGCC	33787
9351	1679	CCAUUAAC G UCUCUCUG	13406	CAGAGAGA GGCTAGCTACAACGA GTTAATGG	33788
9359	1671	GUCUCUCU G UUCCUCCA	13407	TGGAGGAA GGCTAGCTACAACGA AGAGAGAC	33789
9372	1658	UCCACACA G UACUCCA	13408	TGGAAGTA GGCTAGCTACAACGA TGTGTGGA	33790
9381	1649	UACUCCA G CACUGCUC	13409	GAGCAGTG GGCTAGCTACAACGA TGGAAGTA	33791
9386	1644	CCAGCACU G UCCAAGG	13410	CCTTGGAG GGCTAGCTACAACGA AGTGTCTG	33792
9398	1632	CAAGGGAG G UUGAGGUC	13411	GACCTCAA GGCTAGCTACAACGA CTCCCTTG	33793
9404	1626	AGGUUGAG G UCCAUGAA	13412	TTCATGGA GGCTAGCTACAACGA CTCAACCT	33794
9435	1595	CCAAGAAC G UCUUUGUU	13413	AACAAAGA GGCTAGCTACAACGA GTTCTTGG	33795
9441	1589	ACGUCUUU G UUCAACA	13414	TGTTGGAA GGCTAGCTACAACGA AAAGACGT	33796
9450	1580	UUCAACA G UCAUCACG	13415	CGTGATGA GGCTAGCTACAACGA TGTGGGAA	33797
9458	1572	GUCAUCAC G UAGUAUGC	13416	GCATACTA GGCTAGCTACAACGA GTGATGAC	33798
9461	1569	AUCACGUA G UAUGCAU	13417	AATGCATA GGCTAGCTACAACGA TACGTGAT	33799
9465	1565	CGUAGUAG G CAUUGGUG	13418	CACCAATG GGCTAGCTACAACGA ATACTACG	33800
9471	1559	AUGCAUUG G UGUCAUUC	13419	GATTGACA GGCTAGCTACAACGA CAATGCAT	33801
9473	1557	GCAUUGGU G UCAAUCCC	13420	GGGATTGA GGCTAGCTACAACGA ACCAATGC	33802
9487	1543	CCCUGACC G UGGUUCAC	13421	GTGAACCA GGCTAGCTACAACGA GGTGAGGG	33803
9490	1540	UGACCGUG G UUCACAGU	13422	ACTGTGAA GGCTAGCTACAACGA CACGGTCA	33804
9497	1533	GGUUCACA G UCCACUGU	13423	ACAGTGGA GGCTAGCTACAACGA TGTGAACC	33805
9504	1526	AGUCCACU G UCACCUCU	13424	AGAGGTGA GGCTAGCTACAACGA AGTGGAGT	33806
9526	1504	UUCUCCAA G CUUAGUG	13425	CACTAAAG GGCTAGCTACAACGA TTGGAGAA	33807
9532	1498	AAGCUUUA G UGUGUAUG	13426	CATACACA GGCTAGCTACAACGA TAAAGCTT	33808
9534	1496	GCUUAGU G UGUUGAA	13427	TTCATACA GGCTAGCTACAACGA ACTAAGC	33809
9536	1494	UUUAGUGU G UAUAGAAG	13428	CCTTCATA GGCTAGCTACAACGA AACTAAA	33810
9544	1486	GUUAGAAG G CGCCGCAG	13429	CTGCGGCG GGCTAGCTACAACGA CTTCATAC	33811
9546	1484	AUGAAGGC G CCGCAGGA	13430	TCCTGCGG GGCTAGCTACAACGA GCCTTCAT	33812
9549	1481	AAGGCGCC G CAGGAGUG	13431	CACTCCTG GGCTAGCTACAACGA GCGGCTT	33813
9555	1475	CCGCAGGA G UGAUGCUG	13432	CAGCATCA GGCTAGCTACAACGA TCCTGCGG	33814
9560	1470	GGAGUGAU G CUGAAUCU	13433	AGATTGAG GGCTAGCTACAACGA ATCACTCC	33815
9573	1457	AUCUCCCU G CCUGAGUG	13434	CACTCAGG GGCTAGCTACAACGA AGGGAGAT	33816
9579	1451	CUGCCUGA G UGGCUCCA	13435	TGGAGCCA GGCTAGCTACAACGA TCAGGCAG	33817
9582	1448	CCUGAGUG G CUCCAACC	13436	GGTTGGAG GGCTAGCTACAACGA CACTCAGG	33818
9592	1438	UCCAACCU G UGUGGAGU	13437	ACTCCACA GGCTAGCTACAACGA AGGTTGGA	33819
9594	1436	CAACCUGU G UGGAGUAG	13438	CTACTCCA GGCTAGCTACAACGA ACAGGTTG	33820
9599	1431	UGUGUGGA G UAGUUUCC	13439	GGAAACTA GGCTAGCTACAACGA TCCACACA	33821
9602	1428	GUGGAGUA G UUCCGUG	13440	CACGGAAA GGCTAGCTACAACGA TACTCCAC	33822

9608	1422	UAGUUUCC G UGCGACUC	13441	GAGTCGCA GGCTAGCTACAACGA GGAACATA	33823
9610	1420	GUUUCGCU G CGACUCCA	13442	TGGAGTCG GGCTAGCTACAACGA ACGGAAAC	33824
9621	1409	ACUCCACA G UAGUUGGU	13443	ACCAACTA GGCTAGCTACAACGA TGTGGAGT	33825
9624	1406	CCACAGUA G UUGGUCCA	13444	TGGACCAA GGCTAGCTACAACGA TACTGTGG	33826
9628	1402	AGUAGUUG G UCCAUGGA	13445	TCCATGGA GGCTAGCTACAACGA CAACTACT	33827
9645	1385	CAAAAUG G CCACUUCG	13446	CGAAGTGG GGCTAGCTACAACGA CATTTTGT	33828
9653	1377	GCCACUUC G UACUUGAU	13447	ATCAAGTA GGCTAGCTACAACGA GAAGTGGC	33829
9678	1352	UCAAGAUG G UUCUUCU	13448	AGGAAGAA GGCTAGCTACAACGA CATCTTGA	33830
9690	1340	UUCCUAUU G CCUUGGUA	13449	TACCAAGG GGCTAGCTACAACGA AATAGGAA	33831
9696	1334	UUGCCUUG G UAGAGCAG	13450	CTGCTCTA GGCTAGCTACAACGA CAAGGCAA	33832
9701	1329	UUGGUAGA G CAGGCAAA	13451	TTTGCCTG GGCTAGCTACAACGA TCTACCAA	33833
9705	1325	UAGAGCAG G CAAAUUUG	13452	CAAATTTG GGCTAGCTACAACGA CTGCTCTA	33834
9714	1316	CAAAUUG G CGCAUGUG	13453	CACATGCG GGCTAGCTACAACGA CAAATTTG	33835
9716	1314	AAUUGGC G CAUGUGUC	13454	GACACATG GGCTAGCTACAACGA GCCAAATT	33836
9720	1310	UGGCGCAU G UGUCAAUG	13455	CATTGACA GGCTAGCTACAACGA ATGCGCCA	33837
9722	1308	GCGCAUGU G UCAAUGCU	13456	AGCATTGA GGCTAGCTACAACGA ACATGCGC	33838
9728	1302	GUGUCAAU G CUUCCUUU	13457	AAAGGAAG GGCTAGCTACAACGA ATTGACAC	33839
9737	1293	CUUCCUUU G CCAAUAA	13458	TTATTTGG GGCTAGCTACAACGA AAAGGAAG	33840
9749	1281	AAUAAUCC G CAGCCGUU	13459	AACGGCTG GGCTAGCTACAACGA GGATTATT	33841
9752	1278	AAUCCGCA G CCGUUGCC	13460	GGCAACGG GGCTAGCTACAACGA TGCGGATT	33842
9755	1275	CCGCAGCC G UUGCCCCA	13461	TGGGGCAA GGCTAGCTACAACGA GGCTGCGG	33843
9758	1272	CAGCCGUU G CCCCAGCC	13462	GGCTGGGG GGCTAGCTACAACGA AACGGCTG	33844
9764	1266	UUGCCCCA G CCCCUGUC	13463	GACAGGGG GGCTAGCTACAACGA TGGGGCAA	33845
9770	1260	CAGCCCCU G UCCACCAC	13464	GTGGTGGA GGCTAGCTACAACGA AGGGGCTG	33846
9784	1246	CACUCCUU G UCUGCACA	13465	TGTGCAGA GGCTAGCTACAACGA AAGGAGTG	33847
9788	1242	CCUUGUCU G CACACAAA	13466	TTTGTGTG GGCTAGCTACAACGA AGACAAGG	33848
9798	1232	ACACAAAA G CUGGGUCA	13467	TGACCCAG GGCTAGCTACAACGA TTTTGTGT	33849
9803	1227	AAAGCUGG G UCAGCACG	13468	CGTGCTGA GGCTAGCTACAACGA CCAGCTTT	33850
9807	1223	CUGGGUCA G CACGUUUG	13469	CAAACGTG GGCTAGCTACAACGA TGACCCAG	33851
9811	1219	GUCAGCAC G UUUGUCAU	13470	ATGACAAA GGCTAGCTACAACGA GTGCTGAC	33852
9815	1215	GCACGUU G UCAUUGUG	13471	CACAATGA GGCTAGCTACAACGA AAACGTGC	33853
9821	1209	UUGUCAUU G UGAGCUUC	13472	GAAGCTCA GGCTAGCTACAACGA AATGACAA	33854
9825	1205	CAUUGUGA G CUUCUCCC	13473	GGGAGAAG GGCTAGCTACAACGA TCACAATG	33855
9837	1193	CUCCCAUG G UCGGGCAC	13474	GTGCCCCG GGCTAGCTACAACGA CATGGGAG	33856
9842	1188	AUGGUCGG G CACGCAGC	13475	GCTGCGTG GGCTAGCTACAACGA CCGACCAT	33857
9846	1184	UCGGGCAC G CAGCUUUG	13476	CAAAGCTG GGCTAGCTACAACGA GTGCCCGA	33858
9849	1181	GGCAGCA G CUUUGGUG	13477	CACCAAAG GGCTAGCTACAACGA TGCGTGCG	33859
9855	1175	CAGCUUUG G UGGAGAGA	13478	TCTCTCCA GGCTAGCTACAACGA CAAAGCTG	33860
9866	1164	GAGAGUUC G CUGACGGU	13479	ACCGTCAG GGCTAGCTACAACGA GATCTCTC	33861
9873	1157	CGCUGACG G UAGCCAAA	13480	TTTGGCTA GGCTAGCTACAACGA CGTCAGCG	33862
9876	1154	UGACGGUA G CCAAUAG	13481	CTATTTGG GGCTAGCTACAACGA TACCGTCA	33863
9884	1146	GCCAAUA G CAAUAACU	13482	AGTTATTG GGCTAGCTACAACGA TATTTGGC	33864
9893	1137	CAUAACU G CGGACCUC	13483	GAGGTCCG GGCTAGCTACAACGA AGTTATTG	33865
9903	1127	GGACCUCU G CCAGGUUG	13484	CAACCTGG GGCTAGCTACAACGA AGAGGTCC	33866
9908	1122	UCUGCCAG G UUGACCGC	13485	GCGGTCAA GGCTAGCTACAACGA CTGGCAGA	33867
9915	1115	GGUUGACC G CCUCCAUA	13486	TATGGAGG GGCTAGCTACAACGA GGTCAACC	33868
9945	1085	CAUCGAUG G UAGGCUUG	13487	CAAGCCTA GGCTAGCTACAACGA CATCGATG	33869
9949	1081	GAUGGUAG G CUUGCCU	13488	AGGACAAG GGCTAGCTACAACGA CTACCATC	33870
9953	1077	GUAGGCUU G UCUUAGA	13489	TCTAAGGA GGCTAGCTACAACGA AAGCCTAC	33871
9969	1061	ACAUGAUA G UCACGCAG	13490	CTGCGTGA GGCTAGCTACAACGA TATCATGT	33872
9974	1056	AUAGUCAC G CAGCUGUC	13491	GACAGCTG GGCTAGCTACAACGA GTGACTAT	33873
9977	1053	GUCACGCA G CUGUGGCC	13492	GGCGACAG GGCTAGCTACAACGA TGCGTGAC	33874
9980	1050	ACGCAGCU G UCGCCUUC	13493	GAAGGCGA GGCTAGCTACAACGA AGCTGCGT	33875
9983	1047	CAGCUGUC G CCUUCGAG	13494	CTCGAAGG GGCTAGCTACAACGA GACAGCTG	33876
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10040	990	AAGUCUCU G UUGCUCAU	13498	ATGAGCAA GGCTAGCTACAACGA AGAGACTT	33880
10043	987	UCUCUGUU G CUCAUUC	13499	GGAATGAG GGCTAGCTACAACGA AACAGAGA	33881
10055	975	AUUCCAAG G CAGUUGAA	13500	TTCAACTG GGCTAGCTACAACGA CTTGGAAT	33882
10058	972	CCAAGGCA G UUGAAGCU	13501	AGCTTCAA GGCTAGCTACAACGA TGCCTTGG	33883
10064	966	CAGUUGAA G CUGUAAGC	13502	GCTTACAG GGCTAGCTACAACGA TTCAACTG	33884
10067	963	UGAAGCU G UAAGCUGG	13503	CCAGCTTA GGCTAGCTACAACGA AGCTTCAA	33885

10071	959	AGCUGUAA G CUGGGGCC	13504	GGCCCCAG GGCTAGCTACAACGA TTACAGCT	33886
10077	953	AAGCUGGG G CCACCAA	13505	TTTGGTGG GGCTAGCTACAACGA CCCAGCTT	33887
10087	943	CACCAAAA G CAUAGCA	13506	TGCTATTG GGCTAGCTACAACGA TTTTGGTG	33888
10093	937	AAGCAAUA G CACGACAA	13507	TTGTCGTG GGCTAGCTACAACGA TATTGCTT	33889
10114	916	AACUCUCU G CAUGGUGU	13508	ACACCATG GGCTAGCTACAACGA AGAGAGTT	33890
10119	911	UCUGCAUG G UGUUGCUC	13509	GAGCAACA GGCTAGCTACAACGA CATGCAGA	33891
10121	909	UGCAUGGU G UUGCUCUCC	13510	GGGAGCAA GGCTAGCTACAACGA ACCATGCA	33892
10124	906	AUGGUGUU G CUCCCAAG	13511	CTTGGGAG GGCTAGCTACAACGA AACACCAT	33893
10132	898	GCUCCCAA G CAUCCAAC	13512	GTTGGATG GGCTAGCTACAACGA TTGGGAGC	33894
10149	881	CAUUGACG G CUGCCACC	13513	GGTGGCAG GGCTAGCTACAACGA CGTCATTG	33895
10152	878	UGACGGCU G CCACCAGG	13514	CCTGGTGG GGCTAGCTACAACGA AGCCGTCA	33896
10161	869	CCACCAGG G CAUAUCCA	13515	TGGATATG GGCTAGCTACAACGA CCTGGTGG	33897
10172	858	UAUCCAGG G UUCCUCAA	13516	TTGAGGAA GGCTAGCTACAACGA CTGGGATA	33898
10194	836	AUGAUUCU G UUUUUACC	13517	GGTAAAAA GGCTAGCTACAACGA AGAATCAT	33899
10212	818	AAUACCUU G UGGCCUUG	13518	CAAGGCCA GGCTAGCTACAACGA AAGGTATT	33900
10215	815	ACCUUGUG G CCUUGGUG	13519	CACCAAGG GGCTAGCTACAACGA CACAAGGT	33901
10221	809	UGGCCUUG G UGCUGUCC	13520	GGACAGCA GGCTAGCTACAACGA CAAGGCCA	33902
10223	807	GCCUUGGU G CUGUCCA	13521	ATGGACAG GGCTAGCTACAACGA ACCAAGGC	33903
10226	804	UUGGUGCU G UCCAUCCA	13522	TGGATGGA GGCTAGCTACAACGA AGCACC	33904
10236	794	CCAUCCAA G CCCCUCU	13523	GAAGGGGG GGCTAGCTACAACGA TTGGATGG	33905
10247	783	CCCUUCU G UUCGCUAG	13524	CTAGCGAA GGCTAGCTACAACGA AAGAAGGG	33906
10251	779	UCUUGUUC G CUAGAGUG	13525	CACTCTAG GGCTAGCTACAACGA GAACAAGA	33907
10257	773	UCGCUAGA G UGCUUUCU	13526	AGAAAGCA GGCTAGCTACAACGA TCTAGCGA	33908
10259	771	GCUAGAGU G CUUUCUCC	13527	GGAGAAAG GGCTAGCTACAACGA ACTCTAGC	33909
10268	762	CUUUCUCC G UGUGUCUG	13528	CAGACACA GGCTAGCTACAACGA GGAGAAAG	33910
10270	760	UUCUCCGU G UGUCUGCA	13529	TGCAGACA GGCTAGCTACAACGA ACGGAGAA	33911
10272	758	CUCCGUGU G UCUGCACU	13530	AGTGCAGA GGCTAGCTACAACGA ACACGGAG	33912
10276	754	GUGUGUCU G CACUGUCA	13531	TGACAGTG GGCTAGCTACAACGA AGACACAC	33913
10281	749	UCUGCACU G UCAGUGAC	13532	GTCACGTA GGCTAGCTACAACGA AGTGCAGA	33914
10285	745	CACUGUCA G UGACCUCC	13533	GGAGGTCA GGCTAGCTACAACGA TGACAGTG	33915
10298	732	CUCCGACU G CGUCUUGA	13534	TCAAGACG GGCTAGCTACAACGA AGTCGGAG	33916
10300	730	CCGACUGC G UCUUGAGU	13535	ACTCAAGA GGCTAGCTACAACGA GCAGTCGG	33917
10307	723	CGUCUUGA G UGGCGUGU	13536	ACACGCCA GGCTAGCTACAACGA TCAAGACG	33918
10310	720	CUUGAGUG G CGUGUCUU	13537	AAGACACG GGCTAGCTACAACGA CACTCAAG	33919
10312	718	UGAGUGGC G UGUCUUGG	13538	CCAAGACA GGCTAGCTACAACGA GCCACTCA	33920
10314	716	AGUGGCGU G UCUUGGUG	13539	CACCAAGA GGCTAGCTACAACGA ACGCCACT	33921
10320	710	GUGUCUUG G UGCAUCUU	13540	AAGATGCA GGCTAGCTACAACGA CAAGACAC	33922
10322	708	GUCUUGGU G CAUCUUC	13541	GGAAGATG GGCTAGCTACAACGA ACCAAGAC	33923
10340	690	UACCUAGC G UAGACUGC	13542	GCAGTCTA GGCTAGCTACAACGA GTCAAGTA	33924
10347	683	CGUAGACU G CUGACUUU	13543	AAAGTCAG GGCTAGCTACAACGA AGTCTACG	33925
10356	674	CUGACUUU G UGCACCAA	13544	TTGGTGCA GGCTAGCTACAACGA AAAGTCAG	33926
10358	672	GACUUGU G CACCAACA	13545	TGTTGGTG GGCTAGCTACAACGA ACAAGTC	33927
10367	663	CACCAACA G UCGAUGUC	13546	GACATCGA GGCTAGCTACAACGA TGTTGGTG	33928
10373	657	CAGUCGAU G UCUUCUGG	13547	CCAGAAGA GGCTAGCTACAACGA ATCGACTG	33929
10392	638	CAUUAACA G CCGACAGC	13548	GCTGTCCG GGCTAGCTACAACGA TGGAATG	33930
10399	631	AGCCGACA G CACUGGGC	13549	GCCAGTG GGCTAGCTACAACGA TGTGGCT	33931
10406	624	AGCACUGG G CAUUCUAU	13550	TATGAATG GGCTAGCTACAACGA CCAAGTCT	33932
10416	614	AUUCAUAA G UGAUAGUA	13551	TACTATCA GGCTAGCTACAACGA TTATGAAT	33933
10422	608	AAGUGAUA G UAUCAUCG	13552	CGATGATA GGCTAGCTACAACGA TATCACTT	33934
10430	600	GUAUCAUC G CACAUGUA	13553	TACATGTG GGCTAGCTACAACGA GATGATAC	33935
10436	594	UCGCACAU G UAUCCAC	13554	GTGGGATA GGCTAGCTACAACGA ATGTGCGA	33936
10452	578	CAUCCAUA G CUCUGACA	13555	TGTCAGAG GGCTAGCTACAACGA AATGGATG	33937
10463	567	CUGACAAU G CAUAGGUU	13556	AACCTATG GGCTAGCTACAACGA ATTGTCAG	33938
10469	561	AUGCAUAG G UUCUUUCC	13557	GAAAGAA GGCTAGCTACAACGA CTATGCAT	33939
10479	551	UCUUUCCA G CAGCUGUU	13558	AACAGCTG GGCTAGCTACAACGA TTGGAAGA	33940
10482	548	UUCAGCA G CUGUUGGA	13559	TCCAACAG GGCTAGCTACAACGA TGCTGGAA	33941
10485	545	CAGCAGCU G UUGGAAUC	13560	GATTCCAA GGCTAGCTACAACGA AGCTGCTG	33942
10494	536	UUGGAAUC G UGAUGACA	13561	TGTCATCA GGCTAGCTACAACGA GATTCCAA	33943
10506	524	UGACAUUC G UGACUGCA	13562	TGACGTCA GGCTAGCTACAACGA AGATGTCA	33944
10511	519	UCUGUGAC G UCAGUAGC	13563	GCTACTGA GGCTAGCTACAACGA GTCACAGA	33945
10515	515	UGACGUCA G UAGCAUUU	13564	AAATGCTA GGCTAGCTACAACGA TGACGTCA	33946
10518	512	CGUCAGUA G CAUUUACC	13565	GGTAAATG GGCTAGCTACAACGA TACTGACG	33947
10527	503	CAUUUACC G UCAUCAUC	13566	GATGATGA GGCTAGCTACAACGA GGTAAATG	33948

10550	480	CCUUGGAA G UUAGAGAG	13567	CTCTCTAA GGCTAGCTACAACGA TTCCAAGG	33949
10560	470	UAGAGAGG G UAACUGCU	13568	AGCAGTTA GGCTAGCTACAACGA CCTCTCTA	33950
10566	464	GGGUAACU G CUCCUACG	13569	CGTAGGAG GGCTAGCTACAACGA AGTTACCC	33951
10574	456	GCUCUAC G CUGGCGAU	13570	ATCGCCAG GGCTAGCTACAACGA GTAGGAGC	33952
10578	452	CUACGCUG G CGAUCAGG	13571	CCTGATCG GGCTAGCTACAACGA CAGCGTAG	33953
10586	444	GCGAUCAG G CCAAUCAU	13572	ATGATTGG GGCTAGCTACAACGA CTGATCGC	33954
10599	431	UCAUGACU G CAAUCCG	13573	CGGAATTG GGCTAGCTACAACGA AGTCATGA	33955
10608	422	CAAUCCG G UCUIUCCU	13574	AGGAAAGA GGCTAGCTACAACGA CGGAATTG	33956
10630	400	UUUCUUU G UUUUGAGC	13575	GCTCAAAA GGCTAGCTACAACGA AAAAGAAA	33957
10637	393	UGUUUGA G CUCCGCCG	13576	CGGCGGAG GGCTAGCTACAACGA TCAAAACA	33958
10642	388	UGAGCUCC G CCGAUUGA	13577	TCAATCGG GGCTAGCTACAACGA GGAGCTCA	33959
10653	377	GAUUGAUA G CACUGGUC	13578	GACCAGTG GGCTAGCTACAACGA TATCAATC	33960
10659	371	UAGCACUG G UCAAGGUC	13579	GACCTTGA GGCTAGCTACAACGA CAGTGCTA	33961
10665	365	UGGUCAAG G UCCCUAGU	13580	ACTAGGGA GGCTAGCTACAACGA CTTGACCA	33962
10672	358	GGUCCCUA G UUCUUCU	13581	AGAAGGAA GGCTAGCTACAACGA TAGGGACC	33963
10694	336	CUCAGAAG G UGUUUAU	13582	ATGAAACA GGCTAGCTACAACGA CTTCTGAG	33964
10696	334	CAGAAGGU G UUAUCCG	13583	CGATGAAA GGCTAGCTACAACGA ACCTTCTG	33965
10704	326	GUUUAUC G CUGUUUGU	13584	ACAAACAG GGCTAGCTACAACGA GATGAAAC	33966
10707	323	UCAUCGCU G UUUUUUG	13585	CAAACAAA GGCTAGCTACAACGA AGCGATGA	33967
10711	319	CGCUGUUU G UUUUUUA	13586	TGAACAAA GGCTAGCTACAACGA AAACAGCG	33968
10715	315	GUUUUUU G UUCACACC	13587	GGTGTGAA GGCTAGCTACAACGA AAACAAAC	33969
10738	292	UCGAUCCA G CACUGCUC	13588	GAGCAGTG GGCTAGCTACAACGA TGGATCGA	33970
10743	287	CCAGCACU G CUCGGGUC	13589	GACCCGAG GGCTAGCTACAACGA AGTGCTGG	33971
10749	281	CUGCUCGG G UCGGAGCA	13590	TGCTCCGA GGCTAGCTACAACGA CCGAGCAG	33972
10755	275	GGGUCGGA G CAAUUGCU	13591	AGCAATTG GGCTAGCTACAACGA TCCGACCC	33973
10761	269	GAGCAAUU G CUGUGAAC	13592	GTTCAAGG GGCTAGCTACAACGA AATTGCTC	33974
10764	266	CAAUUGCU G UGAACCUG	13593	CAGGTTCA GGCTAGCTACAACGA AGCAATTG	33975
10779	251	UGAAGAAC G CCAAGAGA	13594	TCTCTTGG GGCTAGCTACAACGA GTTCTTCA	33976
10788	242	CCAAGAGA G CCAACACA	13595	TGTGTTGG GGCTAGCTACAACGA TCTCTTGG	33977
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10807	223	UCGUUAUG G CCCCUUGC	13597	GCAAGGGG GGCTAGCTACAACGA CAATACGA	33979
10814	216	GGCCCUU G CCGUCGAU	13598	ATCGACGG GGCTAGCTACAACGA AAGGGGCC	33980
10817	213	CCCUUGCC G UCGAUCAG	13599	CTGATCGA GGCTAGCTACAACGA GGCAAGGG	33981
10826	204	UCGAUCAG G CUCAACAU	13600	ATGTTGAG GGCTAGCTACAACGA CTGATCGA	33982
10836	194	UCAACAU G CCCUCUUC	13601	GAAGAGGG GGCTAGCTACAACGA TATGTTGA	33983
10846	184	CCUCUUA G UCCAAUCA	13602	TGATTGGA GGCTAGCTACAACGA TGAAGAGG	33984
10865	165	GACAACAC G CGGGCAU	13603	ATGCCCGG GGCTAGCTACAACGA GTGTTGTC	33985
10870	160	CACGCGGG G CAUUCCGC	13604	GCGGAATG GGCTAGCTACAACGA CCCGCGTG	33986
10877	153	GGCAUUC G CGUUUAG	13605	CTAAACG GGCTAGCTACAACGA GGAATGCC	33987
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10885	145	GCGUUUA G CAUAUGA	13607	TCAATATG GGCTAGCTACAACGA TAAACCGC	33989
10896	134	UAUUGACA G CCCGGCUC	13608	GAGCCGGG GGCTAGCTACAACGA TGTCAATA	33990
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10912	118	CUUGCCGG G CCCUCUG	13611	CAGGAGGG GGCTAGCTACAACGA CCGGCAAG	33993
10921	109	CCCUCCUG G UUCUUAU	13612	CTAAGAAA GGCTAGCTACAACGA CAGGAGGT	33994
10944	86	AGAUCUUC G UGCUAAGA	13613	TCTTAGCA GGCTAGCTACAACGA GAAGATCT	33995
10946	84	AUCUUCGU G CUAAGAAA	13614	TTTCTTAG GGCTAGCTACAACGA ACGAAGAT	33996
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10961	69	AACAGCUC G CACUGUGU	13616	ACACAGTG GGCTAGCTACAACGA GAGCTGTT	33998
10966	64	CUCGCACU G UGUUAAU	13617	AATTAACA GGCTAGCTACAACGA AGTGCAGG	33999
10968	62	CGCACUGU G UUAUUUGU	13618	ACAATTAA GGCTAGCTACAACGA ACAGTCCG	34000
10975	55	UGUUAUU G UUGUAAU	13619	ATTAAACA GGCTAGCTACAACGA AATTAACA	34001
10978	52	UAAUUGU G UUAUCCU	13620	AGGATTAA GGCTAGCTACAACGA AACATTA	34002
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11006	24	CUAAGUUU G UCAGCUA	13622	TGAGCTGA GGCTAGCTACAACGA AAACCTAG	34004
11010	20	GUUUGUCA G CGACACA	13623	TGTGTGAG GGCTAGCTACAACGA GACCAAC	34005
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165	10865	UUCUUUG A CCUACAGC	13628	GCTGTAGG GGCTAGCTACAACGA CAGGGGAA	34010
202	10828	CACUUUAA A CCGCGGGG	13629	CCCCGCGG GGCTAGCTACAACGA TTAAAGTG	34011

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245	10785	CCUGGUUA A CACCAUUA	13631	TAATGGTG GGCTAGCTACAACGA TAACCAGG	34013
295	10735	CUUUGUUA A CCCAGUCC	13632	GGACTGGG GGCTAGCTACAACGA TAACAAAG	34014
323	10707	UAUCGCAG A CUGCACUC	13633	GAGTGCAG GGCTAGCTACAACGA CTGCCATA	34015
363	10667	GUGGUCUG A CAUUGGGC	13634	GCCCAATG GGCTAGCTACAACGA CAGACCAC	34016
384	10646	AAGUUACA A CAUGUGGG	13635	CCCACATG GGCTAGCTACAACGA TGTAACTT	34017
407	10623	CUUCCGAG A CGGUUCUG	13636	CAGAACCG GGCTAGCTACAACGA CTCGGAAG	34018
429	10601	UUACAUGG A UCACUUCG	13637	CGAAGTGA GGCTAGCTACAACGA CCATGTAA	34019
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537	10493	UCCUCAAA A UUUUCUUA	13641	TAAGAAAA GGCTAGCTACAACGA TTTGAGGA	34023
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683	10347	UUUAGUGA A CUCAUGUA	13650	TACATGAG GGCTAGCTACAACGA TCACTAAA	34032
692	10338	CUCAUGUA A UCCACUAU	13651	TATGTGGA GGCTAGCTACAACGA TACATGAG	34033
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717	10313	CUCCGAUG A UUGCUCUG	13653	CAGAGCAA GGCTAGCTACAACGA CATCGGAG	34035
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735	10295	CUUGGUUG A UAGCCACC	13655	GGTGGCTA GGCTAGCTACAACGA CAACCAAG	34037
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907	10123	GACCUCCA A CAUGUCCU	13663	AGGACATG GGCTAGCTACAACGA TGGAGGTC	34045
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999	10031	CGGAGCAA A UGGCGUUG	13669	CAAGCCCA GGCTAGCTACAACGA TTGTCCG	34051
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1114	9916	CCCUGGAG A UAUGCGAG	13673	CTCGCATA GGCTAGCTACAACGA CTCCAGGG	34055
1135	9895	GCCUACCA A UUCAUCCU	13674	AGGATGAA GGCTAGCTACAACGA TGGTAGGC	34056
1158	9872	GGCAUGGA A CCACCAGU	13675	ACTGGTGG GGCTAGCTACAACGA TCCATGCC	34057
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1189	9841	CAUGAUCA A UUCAGUGA	13677	TCACTGAA GGCTAGCTACAACGA TGATCATG	34059
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1263	9767	ACUCUUGG A UGUCUUUG	13683	CAAAGACA GGCTAGCTACAACGA CCAAGAGT	34065
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1356	9674	CUCCACUG A CAGCCAUG	13687	CATGGCTG GGCTAGCTACAACGA CAGTGGAG	34069
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2003	9027	CAAGUGUG A CAUCCCC	13717	GGGGAATG GGCTAGCTACAACGA CACACTTG	34099
2018	9012	CCCCGAG A UGUGCCUC	13718	GAGGCACA GGCTAGCTACAACGA CTGCGGGG	34100
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3086	7944	AUAUAGUA A CACCAACC	13762	GGTTGGTG GGCTAGCTACAACGA TACTATAT	34144
3092	7938	UAAACACCA A CCGCCUCU	13763	AGAGGCGG GGCTAGCTACAACGA TGGTGTTA	34145
3117	7913	CAAGGUCA A UCACUUUU	13764	AAAAGTGA GGCTAGCTACAACGA TGACCTTG	34146
3129	7901	CUUUUCCG A CCGGUUCG	13765	CGAACCGG GGCTAGCTACAACGA CGGAAAAG	34147
3142	7888	UUCGAGAA A CCUCGGUU	13766	AACGGAGG GGCTAGCTACAACGA TTCTCGAA	34148
3153	7877	UCCGUUCG A CCAGCCAU	13767	ATGGCTGG GGCTAGCTACAACGA CGAACGGA	34149
3186	7844	CCCUAGAG A CUGGAUGC	13768	GCATCCAG GGCTAGCTACAACGA CTCTAGGG	34150
3191	7839	GAGACUGG A UGCCCUC	13769	GGAGGGCA GGCTAGCTACAACGA CCAGTCTC	34151
3204	7826	CUCCAGUG A CAUUGCCU	13770	AGGCAATG GGCTAGCTACAACGA CACTGGAG	34152
3242	7788	GCUGAGCG A UCGACUUC	13771	GAAGTCGA GGCTAGCTACAACGA CGCTCAGC	34153
3246	7784	AGCGAUCG A CUUCGAUG	13772	CATCGAAG GGCTAGCTACAACGA CGATCGCT	34154
3252	7778	CGACUUCG A UGAUGGCC	13773	GGCCATCA GGCTAGCTACAACGA CGAAGTCG	34155
3255	7775	CUUCGAUG A UGGCCUCU	13774	AGAGGCCA GGCTAGCTACAACGA CATCGAAG	34156
3280	7750	CCUAGUGA A CUCUUCUU	13775	AAGAAGAG GGCTAGCTACAACGA TCATAGG	34157
3318	7712	CUUCCAA A CCUCUCCC	13776	GGGAGAGG GGCTAGCTACAACGA TTGGAAAG	34158
3400	7630	UGUUAUGG A UAGACAUG	13777	CATGTCTA GGCTAGCTACAACGA CCATAACA	34159
3404	7626	AUGGAUAG A CAUGACAA	13778	TTGTCATG GGCTAGCTACAACGA CTATCCAT	34160
3409	7621	UAGACAUG A CAACCAAC	13779	GTTGGTTG GGCTAGCTACAACGA CATGTCTA	34161
3412	7618	ACAUGACA A CCAACCCC	13780	GGGGTTGG GGCTAGCTACAACGA TGTCATGT	34162
3416	7614	GACAACCA A CCCCCACG	13781	CGTGGGGG GGCTAGCTACAACGA TGGTTGTC	34163
3429	7601	CACGCAUG A UGUGGCAG	13782	CTGCCACA GGCTAGCTACAACGA CATGCGTG	34164
3444	7586	AGAGUCCG A UGGCAGUU	13783	AAC TGCCA GGCTAGCTACAACGA CGGACTCT	34165
3465	7565	CGUCCAA A CAGAGCUU	13784	AAGCTCTG GGCTAGCTACAACGA TTGGAACG	34166
3510	7520	CGGCCGUG A UCAAAAUU	13785	AATTTTGA GGCTAGCTACAACGA CACGGCCG	34167
3516	7514	UGAUCAAA A UUCCGGCU	13786	AGCCGGAA GGCTAGCTACAACGA TTTGATCA	34168
3544	7486	CUUCACAG A CGGGUUCA	13787	TGAACCCG GGCTAGCTACAACGA CTGTGAAG	34169
3571	7459	AGCUAGAG A CACCAAGA	13788	TCTTGGTG GGCTAGCTACAACGA CTCTAGCT	34170
3579	7451	ACACCAAG A UCAGCAUG	13789	CATGCTGA GGCTAGCTACAACGA CTTGGTGT	34171
3588	7442	UCAGCAUG A UCUGUCCA	13790	TGGACAGA GGCTAGCTACAACGA CATGTCTA	34172
3597	7433	UCUGUCCA A CUUUCUUC	13791	GAAGAAAG GGCTAGCTACAACGA TGGACAGA	34173
3612	7418	UCUGCAUG A UGGGUGUG	13792	CACACCCA GGCTAGCTACAACGA CATGCAGA	34174
3631	7399	GCGCUCUA A UUCUGGGA	13793	TCCAGAA GGCTAGCTACAACGA TAGAGCGC	34175
3639	7391	AUUCUGGG A CGUCCGUG	13794	CACGGACG GGCTAGCTACAACGA CCCAGAAT	34176
3654	7376	UGGCCACG A UGCCAUCC	13795	GGATGGCA GGCTAGCTACAACGA CGTGGCCA	34177
3681	7349	UCUUC AUG A UUCGGGCC	13796	GGCCGGAA GGCTAGCTACAACGA CATGAAGA	34178
3731	7299	GCUUGCCA A CCGGGAAC	13797	GTTCCTCG GGCTAGCTACAACGA TGGCAAGC	34179
3738	7292	AACCGGGA A CCAUGUAG	13798	CTACATGG GGCTAGCTACAACGA TCCCGGTT	34180
3786	7244	UUACCGUA A CGGUGAGG	13799	CCTCACCG GGCTAGCTACAACGA TACGGTAA	34181
3798	7232	UGAGGGUG A CUUGUCCC	13800	AGTGACAAG GGCTAGCTACAACGA CACCTTCA	34182
3835	7195	GAGAGCCG A CACUCCAA	13801	TTGGAGTG GGCTAGCTACAACGA CGGCTCTC	34183
3843	7187	ACACUCCA A CAUCGACG	13802	CGTCGATG GGCTAGCTACAACGA TGGAGTGT	34184
3849	7181	CAACAUCG A CGAAGGGG	13803	CCCCTTCG GGCTAGCTACAACGA CGATGTTG	34185
3877	7153	GAGUGUGA A UAGUGCAC	13804	GTGCACTA GGCTAGCTACAACGA TCACACTC	34186
3894	7136	UUGCCUGA A CGUUUAUU	13805	AATAAACG GGCTAGCTACAACGA TCAGGCAA	34187
3910	7120	UGAGGUCA A UGAGGUGU	13806	ACACCTCA GGCTAGCTACAACGA TGACCTCA	34188
3921	7109	AGGUGUUG A UGUAAUCU	13807	AGATTACA GGCTAGCTACAACGA CAACACCT	34189
3926	7104	UGAUGUA A UCUGACGU	13808	ACGTCAGA GGCTAGCTACAACGA TACATCAA	34190
3931	7099	GUAAUCUG A CGUGAUCA	13809	TGATCACG GGCTAGCTACAACGA CAGATTAC	34191
3936	7094	CUGACGUG A UCAAAUGC	13810	GCATTTGA GGCTAGCTACAACGA CACGTCAG	34192
3941	7089	GUGAUCAA A UGCUUUG	13811	CTAAGCA GGCTAGCTACAACGA TTGATCAC	34193
3963	7067	GAGUGAGG A CCGCUGUU	13812	AACAGCGG GGCTAGCTACAACGA CCTCACTC	34194
3988	7042	GUACAGUG A CCAGGCUG	13813	CAGCTTGG GGCTAGCTACAACGA CACTGTAC	34195
4021	7009	CAAAAGAA A CUCUCCCA	13814	TGGGAGAG GGCTAGCTACAACGA TTCTTTTG	34196
4037	6993	AUGCUGAA A UUCUCCUU	13815	AAGGAGAA GGCTAGCTACAACGA TTCAGCAT	34197
4047	6983	UCUCCUUG A CCUCAUUU	13816	AATTGAGG GGCTAGCTACAACGA CAAGGAGA	34198
4053	6977	UGACCUCA A UUCUUUGC	13817	GCAAAAGAA GGCTAGCTACAACGA TGAGGTCA	34199
4066	6964	UUGCCCAA A CAAACUGC	13818	GCAGTTTG GGCTAGCTACAACGA TTGGGCAA	34200

4070	6960	CCAACAA A CUGCUIAU	13819	ATAAGCAG GGCTAGCTACAACGA TTGTTTGG	34201
4103	6927	UCUAGCCA A CCCAUCUC	13820	GAGATGGG GGCTAGCTACAACGA TGGCTAGA	34202
4143	6887	GGGUCAUG A CACAAUUC	13821	GATTTGTG GGCTAGCTACAACGA CATGACCC	34203
4149	6881	UGACACAA A UCAGGAAC	13822	GTTCTCTGA GGCTAGCTACAACGA TTGTGTCA	34204
4156	6874	AAUCAGGA A CACGGCUA	13823	TAGCCGTG GGCTAGCTACAACGA TCCTGATT	34205
4184	6846	GUCUGCGA A CGUUGCUU	13824	AAGCAACG GGCTAGCTACAACGA TCGCAGAC	34206
4206	6824	GCUCAGGA A UUAGCACA	13825	TGTGCTAA GGCTAGCTACAACGA TCCTGAGC	34207
4215	6815	UUAGCACA A UCAUCAAG	13826	CTTGATGA GGCTAGCTACAACGA TGTGCTAA	34208
4240	6790	GAGCAGCA A CAUUCGG	13827	CCGGAATG GGCTAGCTACAACGA TGCTGCTC	34209
4251	6779	UUCGGCG A UCUUCGUU	13828	AAGCAAGA GGCTAGCTACAACGA CGCCGAA	34210
4266	6764	UUCUGGA A CUUCAGCC	13829	GGCTGAAG GGCTAGCTACAACGA TCCAGGAA	34211
4280	6750	GCCAUCCA A CAGAAAA	13830	TTTTTCTG GGCTAGCTACAACGA TGGATGGC	34212
4296	6734	AGGUCGCG A CUCCCAAG	13831	CTTGGGAG GGCTAGCTACAACGA CGCGACCT	34213
4305	6725	CUCCCAAG A CAGCGCCU	13832	AGGCGCTG GGCTAGCTACAACGA CTTGGGAG	34214
4319	6711	CCUCCAA A CCUAUCUU	13833	AAGATAGG GGCTAGCTACAACGA TTGGGAGG	34215
4332	6698	UCUUCCA A UGCCCUC	13834	GAAGGGCA GGCTAGCTACAACGA TGGAAAGA	34216
4360	6670	GAGGAAGA A UACUCCA	13835	TGGGAGTA GGCTAGCTACAACGA TCTTCTCT	34217
4384	6646	CACACUCA A UAAGGCA	13836	TTGCCTTA GGCTAGCTACAACGA TGAGTGTG	34218
4392	6638	AUAAGGCA A UCAAGGCA	13837	TGCCTTGA GGCTAGCTACAACGA TGCCTTAT	34219
4401	6629	UCAAGGCA A UUGUCUGA	13838	TCAGACAA GGCTAGCTACAACGA TGCCTTGA	34220
4476	6554	UGGCCACA A CGUACAUG	13839	CATGTACG GGCTAGCTACAACGA TGTGGCCA	34221
4539	6491	UUCCAGA A CCUCAUG	13840	CATTGAGG GGCTAGCTACAACGA TCTGGGAA	34222
4545	6485	GAACCUA A UAGGCCU	13841	AGGGCTCA GGCTAGCTACAACGA TGAGTTTC	34223
4562	6468	AUCUGAGA A CGUUUUC	13842	GGAAAACG GGCTAGCTACAACGA TCTCAGAT	34224
4588	6442	GUCCUGA A CGCCUUA	13843	TAAAGGCG GGCTAGCTACAACGA TCAAGGAC	34225
4607	6423	GCCUGGUG A UCCGAGUA	13844	TACTCGGA GGCTAGCTACAACGA CACCAGGC	34226
4629	6401	UGGCGUCA A UCCAGCGC	13845	GCGCTGGA GGCTAGCTACAACGA TGACGCCA	34227
4647	6383	GCCUCAGA A UCUUCUU	13846	AAGGAAGA GGCTAGCTACAACGA TCTGAGGC	34228
4671	6359	GUUCGUG A UGACUUC	13847	GGAAGTCA GGCTAGCTACAACGA CACGAAGC	34229
4674	6356	UCGUGAUG A CUUCCACU	13848	AGTGGAAG GGCTAGCTACAACGA CATCACGA	34230
4701	6329	CUUCUAAA A UUGUGUU	13849	AAACCAA GGCTAGCTACAACGA TTTAGAAG	34231
4718	6312	GUCCUAGG A CCAUCAA	13850	TTTGATGG GGCTAGCTACAACGA CTAGGAC	34232
4750	6280	GUGGUAUG A CACUCCAG	13851	CTGGAGTG GGCTAGCTACAACGA CATAACAC	34233
4767	6263	CCGUGCA A CCUUGUAA	13852	TTACAAGG GGCTAGCTACAACGA TGCAGCGG	34234
4785	6245	CCAGCAA A CUGGCAGA	13853	TCTGCCAG GGCTAGCTACAACGA TTGGCTGG	34235
4793	6237	ACUGGCAG A UCUGCAGU	13854	ACTGCAGA GGCTAGCTACAACGA CTGCCAGT	34236
4807	6223	AGUCCUCA A CAGUCCA	13855	TGGAAGTG GGCTAGCTACAACGA TGAGGACT	34237
4894	6136	UUGGUAGA A UUGAGCGA	13856	TCGCTCAA GGCTAGCTACAACGA TCTACCAA	34238
4902	6128	AUUGAGCG A UCAGUCCG	13857	CGGACTGA GGCTAGCTACAACGA CGCTCAAT	34239
4923	6107	GCAUGUUG A UGUUGUCC	13858	GGACAACA GGCTAGCTACAACGA CAACATGC	34240
4938	6092	CCAGCAUG A UUCGUGCC	13859	GGCACGAA GGCTAGCTACAACGA CATGCTGG	34241
4955	6075	UCAGUCCA A UGGGCGAA	13860	TTGCCCCA GGCTAGCTACAACGA TGGACTGA	34242
4997	6033	CCCCAUA A CAGUACUC	13861	GAGTACTG GGCTAGCTACAACGA TATGGGGG	34243
5013	6017	CAUCACCA A CUUGCGAC	13862	GTCGCAAG GGCTAGCTACAACGA TGGTGATG	34244
5020	6010	AACUUGCG A CGGAUUUC	13863	GAAATCCG GGCTAGCTACAACGA CGCAAGTT	34245
5024	6006	UGCGACGG A UUUCUACC	13864	GGTAGAAA GGCTAGCTACAACGA CCGTCGCA	34246
5034	5996	UUCUACCG A UACGUCCA	13865	TGGACGTA GGCTAGCTACAACGA CGGTAGAA	34247
5077	5953	CACUGCAG A UGGUUCUC	13866	GAGAACCA GGCTAGCTACAACGA CTGCAGTG	34248
5091	5939	CUCCAGG A UGACUCUC	13867	GAGAGTGA GGCTAGCTACAACGA CCTGGGAG	34249
5118	5912	CUGUUAUG A UGGUUGGU	13868	ACCAACCA GGCTAGCTACAACGA CATAACAG	34250
5148	5882	GGCUGUCA A UCACCCUG	13869	CAGGGTGA GGCTAGCTACAACGA TGACAGCC	34251
5185	5845	CAUUCAG A UAUGUCUG	13870	CAGACATA GGCTAGCTACAACGA CTGAAATG	34252
5199	5831	CUGUUGUG A UAACAAAG	13871	CTTTGTTA GGCTAGCTACAACGA CACAACAG	34253
5202	5828	UUGUGAUA A CAAAGUCC	13872	GGACTTTG GGCTAGCTACAACGA TATCACAA	34254
5213	5817	AAGUCCA A UCAUCGUU	13873	AACGATGA GGCTAGCTACAACGA TGGGACTT	34255
5251	5779	CUCGUACG A CUUUCUGU	13874	ACAGAAAG GGCTAGCTACAACGA CGTACGAG	34256
5263	5767	UCUGUUA A UUGGACUA	13875	TAGTCCAA GGCTAGCTACAACGA TGAACAGA	34257
5268	5762	UCAAUUGG A CUACUUUC	13876	GAAAGTAG GGCTAGCTACAACGA CCAATTGA	34258
5304	5726	AAAGGGCA A UCUCAUUC	13877	GAATGAGA GGCTAGCTACAACGA TGCCCTTT	34259
5322	5708	CCAUCUUG A CACUAGGC	13878	GCCTAGTG GGCTAGCTACAACGA CAAGATGG	34260
5335	5695	AGGCACAA A CCAAACCG	13879	CGGTTTGG GGCTAGCTACAACGA TTGTGCCT	34261
5340	5690	CAAACCAA A CCGUCUUC	13880	GAAGACGG GGCTAGCTACAACGA TTGGTTTG	34262
5364	5666	AUUCUGUG A UCCAUUCG	13881	CGAATGGA GGCTAGCTACAACGA CACAGAAT	34263

5393	5637	CAAGCUCG A UCCGGGAU	13882	ATCCCCGA GGCTAGCTACAACGA CGAGCTTG	34264
5400	5630	GAUCCGGG A UCUCAGUC	13883	GACTGAGA GGCTAGCTACAACGA CCCGGATC	34265
5421	5609	AGUCGGAA A UUGGUGAA	13884	TTCACCAA GGCTAGCTACAACGA TTCCGACT	34266
5429	5601	AUUGGUGA A UUGGACUC	13885	GAGTCCAA GGCTAGCTACAACGA TCACCAAT	34267
5434	5596	UGAAUUGG A CUCUGGGA	13886	TCCCAGAG GGCTAGCTACAACGA CCAATTCA	34268
5443	5587	CUCUGGGA A UGGAUCUG	13887	CAGATCCA GGCTAGCTACAACGA TCCCAGAG	34269
5447	5583	GGGAAUGG A UCUGAAGU	13888	ACTTCAGA GGCTAGCTACAACGA CCATTCCC	34270
5479	5551	UGUCAUGA A UAUUGCCG	13889	CGGCAATA GGCTAGCTACAACGA TCATGACA	34271
5505	5525	CUAGCUCG A CCUUUGUG	13890	CACAAAGG GGCTAGCTACAACGA CGAGCTAG	34272
5517	5513	UUGUGGAA A UGUAAACU	13891	AGGTTACA GGCTAGCTACAACGA TTCCACAA	34273
5522	5508	GAAAUUGA A CCUCUUGC	13892	GCAAGAGG GGCTAGCTACAACGA TACATTTC	34274
5535	5495	UUGCUGCA A UGCUAGCU	13893	AGCTAGCA GGCTAGCTACAACGA TGCAGCAA	34275
5555	5475	UCGGUGAA A UGAGCCUC	13894	GAGGCTCA GGCTAGCTACAACGA TTCACCGA	34276
5575	5455	CAUCACGA A CAGGUUGU	13895	ACAACCTG GGCTAGCTACAACGA TCGTGATG	34277
5605	5425	GUGAGGAG A CAUCAGCC	13896	GGCTGATG GGCTAGCTACAACGA CTCCTCAC	34278
5633	5397	GUAGCAUG A CACAUGAC	13897	GTCATGTG GGCTAGCTACAACGA CATGCTAC	34279
5640	5390	GACACAUG A CAUCAACA	13898	TGTTGATG GGCTAGCTACAACGA CATGTGTC	34280
5646	5384	UGACAUCA A CAAUCUCA	13899	TGAGATTG GGCTAGCTACAACGA TGATGTCA	34281
5649	5381	CAUCAACA A UCUCAUUU	13900	AAATGAGA GGCTAGCTACAACGA TGTTGATG	34282
5683	5347	CACUGCGG A UGUCUGGU	13901	ACCAGACA GGCTAGCTACAACGA CCGCAGTG	34283
5697	5333	GGUACCGG A UGGGCAGU	13902	ACTGCCCA GGCTAGCTACAACGA CCGGTACC	34284
5739	5291	CAGCCACA A CCCUGGUU	13903	AACCAGGG GGCTAGCTACAACGA TGTGGCTG	34285
5793	5237	CCUCUUUG A UGAUCUGU	13904	ACAGATCA GGCTAGCTACAACGA CAAAGAGG	34286
5796	5234	CUUUGAUG A UCUGUGGC	13905	GCCACAGA GGCTAGCTACAACGA CATCAAAG	34287
5808	5222	GUGGCAGA A UCCUCCUU	13906	AAGGAGGA GGCTAGCTACAACGA TCTGCCAC	34288
5834	5196	GCGCCGGG A UGGAGAUC	13907	GATCTCCA GGCTAGCTACAACGA CCCGCGGC	34289
5840	5190	GGAUGGAG A UCCAGUAC	13908	GTACTGGA GGCTAGCTACAACGA CTCCATCC	34290
5853	5177	GUACAGUG A UCUGUUUU	13909	AAAACAGA GGCTAGCTACAACGA CACTGTAC	34291
5884	5146	AGGUUCGA A UCCGGCUG	13910	CAGCCGGA GGCTAGCTACAACGA TCGAACCT	34292
5895	5135	CGGCGUGG A UUGGCUCA	13911	TGAGCCAA GGCTAGCTACAACGA CCCAGCCG	34293
5958	5072	GCAUUAUG A CUCCAUG	13912	CAATGGAG GGCTAGCTACAACGA CATAATGC	34294
5979	5051	AAAGCCCA A UCACAUCA	13913	TGATGTGA GGCTAGCTACAACGA TGGGCTTT	34295
6016	5014	UGAGCCUG A UGUUCCAG	13914	CTGGAACA GGCTAGCTACAACGA CAGGCTCA	34296
6051	4979	CGGCCCCG A UUUCUCCU	13915	AGGAGAAA GGCTAGCTACAACGA CGGGGCCG	34297
6073	4957	UGUUUUGA A CACCCUG	13916	CAGGGGTG GGCTAGCTACAACGA TCAAAACA	34298
6093	4937	UCGUCUGG A CGUUCUUA	13917	TAAGAACG GGCTAGCTACAACGA CCAGACGA	34299
6102	4928	CGUUCUUA A CGUUCUUG	13918	CAAGAACG GGCTAGCTACAACGA TAAGAACG	34300
6126	4904	CCACCACA A UCAUCUGC	13919	GCAGATGA GGCTAGCTACAACGA TGTGGTGG	34301
6166	4864	GUGCUGCA A UUUCAGG	13920	CCTGGAAA GGCTAGCTACAACGA TGCAGCAC	34302
6185	4845	CCUCCGUA A CAAAGUCG	13921	CGACTTTG GGCTAGCTACAACGA TACGGAGG	34303
6194	4836	CAAAGUCG A UCCUCCUU	13922	AAGGAGGA GGCTAGCTACAACGA CGACTTTG	34304
6204	4826	CCUCCUUG A CACUGCCC	13923	GGCAGTG GGCTAGCTACAACGA CAAGGAGG	34305
6285	4745	UGUGGAAA A CACCUUCA	13924	TGAAGGTG GGCTAGCTACAACGA TTTCCACA	34306
6294	4736	CACCUUCA A CCAUCACG	13925	CGTGATGG GGCTAGCTACAACGA TGAAGGTG	34307
6317	4713	CCUGCUUG A UACUGCC	13926	GGCAGTTA GGCTAGCTACAACGA CAAGCAGG	34308
6320	4710	GCUUGAUA A CUGCCGAG	13927	CTCGGCAG GGCTAGCTACAACGA TATCAAGC	34309
6345	4685	GAGUCAUG A UCCUGUAG	13928	CTACAGGA GGCTAGCTACAACGA CATGACTC	34310
6354	4676	UCCUGUAG A CGCCGGUG	13929	CACCGGCG GGCTAGCTACAACGA CTACAGGA	34311
6409	4621	GUCCCACA A CACGCCUC	13930	GAGGCGTG GGCTAGCTACAACGA TGTGGGAC	34312
6448	4582	UAUCCAAA A UCCAACUA	13931	TAGTTGGA GGCTAGCTACAACGA TTTGGATA	34313
6453	4577	AAAAUCCA A CUACUGAG	13932	CTCAGTAG GGCTAGCTACAACGA TGGATTIT	34314
6468	4562	AGGGCAAG A UUGCCCAG	13933	CTGGGCAA GGCTAGCTACAACGA CTGCCCC	34315
6492	4538	ACGCACUA A UCGCGAGA	13934	TCTCGCGA GGCTAGCTACAACGA TAGTGCGT	34316
6500	4530	AUCGCGAG A CAGACCAU	13935	ATGGTCTG GGCTAGCTACAACGA CTCGCGAT	34317
6504	4526	CGAGACAG A CCAUUCUG	13936	CAGAATGG GGCTAGCTACAACGA CTGCTCG	34318
6542	4488	GCUCCUGG A UCAUUAU	13937	ATGAATGA GGCTAGCTACAACGA CCAGGAGC	34319
6588	4442	GCACAUCA A CUCUUUCG	13938	CGAAAGAG GGCTAGCTACAACGA TGATGTGC	34320
6609	4421	AGCCUGUA A UUUCUGCA	13939	TGCAGAAA GGCTAGCTACAACGA TACAGGCT	34321
6633	4397	CCCAGGAA A UGUCCGCC	13940	GGCGGACA GGCTAGCTACAACGA TTCCTGGG	34322
6651	4379	UUCUCUCA A UCCACAU	13941	TATGTGGA GGCTAGCTACAACGA TGAGAGAA	34323
6667	4363	AUCUGUUG A UUUCCAG	13942	CTGGGAAA GGCTAGCTACAACGA CAACAGAT	34324
6678	4352	UCCAGAAA A UCACGAAA	13943	TTTCGTGA GGCTAGCTACAACGA TTCTGGGA	34325
6694	4336	AGCAGCAA A CAUGGCC	13944	GGCTCATG GGCTAGCTACAACGA TTGCTGCT	34326

Table XI

6708	4322	GCCCCGCG A UAGUCAUU	13945	AATGACTA GGCTAGCTACAACGA CGCGGGGC	34327
6720	4310	UCAUUGGA A UGGCCAUG	13946	CATGGCCA GGCTAGCTACAACGA TCCAATGA	34328
6735	4295	UGGAGUCA A UGUCAAGC	13947	GCTTGACA GGCTAGCTACAACGA TGAATCCA	34329
6759	4271	GCCCCCCG A CGAUGGCA	13948	TGCCATCG GGCTAGCTACAACGA CGGAGGGC	34330
6762	4268	CUCGACG A UGGCAAAC	13949	GTTTGCCA GGCTAGCTACAACGA CGTCGGAG	34331
6769	4261	GAUGGCAA A CAUUGGC	13950	GCCTAATG GGCTAGCTACAACGA TTGCCATC	34332
6780	4250	UUAGGCCG A CAGCUGUC	13951	GACAGCTG GGCTAGCTACAACGA CGGCCTAA	34333
6827	4203	CGGUUGGG A UCACAUGC	13952	GCATGTGA GGCTAGCTACAACGA CCCAACCG	34334
6837	4193	CACAUGCA A UCAGUCCA	13953	TGGACTGA GGCTAGCTACAACGA TGCATGTG	34335
6855	4175	CAGCAAGG A UCAUGGGG	13954	CCCCATGA GGCTAGCTACAACGA CCTTGCTG	34336
6902	4128	CADAGCAG A CUUGCUCC	13955	GGAGCAAG GGCTAGCTACAACGA CTGCTATG	34337
6945	4085	UCUCCUG A UCAAGCUG	13956	CAGCTTGA GGCTAGCTACAACGA CAGGGAGA	34338
6963	4067	CUAUUCCG A CCAUCAAC	13957	GTTGATGG GGCTAGCTACAACGA CGGAATAG	34339
6970	4060	GACCAUCA A CAGCAGUA	13958	TACTGCTG GGCTAGCTACAACGA TGATGGTC	34340
6995	4035	ACAUCAG A UUCAAGCA	13959	TGCTTGAA GGCTAGCTACAACGA CTGGATGT	34341
7038	3992	GCAGCGGA A CAACCACG	13960	CGTGGTTG GGCTAGCTACAACGA TCCGCTGC	34342
7041	3989	GCGGAACA A CCACGUUU	13961	AAACGTGG GGCTAGCTACAACGA TGTCCCGC	34343
7051	3979	CAGGUUUG A UGUUGUUG	13962	CAACGACA GGCTAGCTACAACGA CAAACGTG	34344
7063	3967	CGUUGUGA A UGUUAUGG	13963	CCATAACA GGCTAGCTACAACGA TCACAACG	34345
7103	3927	GCCAGUGA A UUCAACAC	13964	GTGTTGAA GGCTAGCTACAACGA TCACTGGC	34346
7108	3922	UGAAUUCA A CACAUCAG	13965	CTGATGTG GGCTAGCTACAACGA TGAATTCA	34347
7119	3911	CAUCAGGG A UCUCCAG	13966	CTGGGAGA GGCTAGCTACAACGA CCTGTATG	34348
7134	3896	AGAGCAGA A UUUGGCGG	13967	CCGCCAAA GGCTAGCTACAACGA TCTGCTCT	34349
7151	3879	GCAUCGUG A UAAGCCAU	13968	ATGGCTTA GGCTAGCTACAACGA CACGATGC	34350
7170	3860	GAAAGAAA A CAGCCGCC	13969	GGCGGCTG GGCTAGCTACAACGA TTTCTTTC	34351
7180	3850	AGCCGCCA A CAUCAACA	13970	TGTTGATG GGCTAGCTACAACGA TGGCGGCT	34352
7186	3844	CAACAUCA A CAAAUGU	13971	ACATTTTG GGCTAGCTACAACGA TGATGTTG	34353
7191	3839	UCAACAAA A UGUUCUCC	13972	GGAGAACA GGCTAGCTACAACGA TTTGTTGA	34354
7225	3805	UUUGAGAA A CGAUGCCA	13973	TGGCATCG GGCTAGCTACAACGA TTCTCAA	34355
7228	3802	GAGAAACG A UGCCACCA	13974	TGGTGGCA GGCTAGCTACAACGA CGTTTCTC	34356
7240	3790	CACCAUAA A CACUGGUU	13975	AACCAAGT GGCTAGCTACAACGA TTATGGTG	34357
7298	3732	CCUCCCGA A UUAGAUUC	13976	GAATCTAA GGCTAGCTACAACGA TCGGAGGG	34358
7303	3727	CGAAUUG A UUCUGCGA	13977	TCGCAGAA GGCTAGCTACAACGA CTAATTCG	34359
7329	3701	CCACCAAG A UGACAUAG	13978	CTATGTCA GGCTAGCTACAACGA CTGTGGTG	34360
7332	3698	CCAAGAUG A CAUAGCGU	13979	ACGCTATG GGCTAGCTACAACGA CATCTTGG	34361
7342	3688	AUAGCGUA A CACAUCAG	13980	CTGATGTG GGCTAGCTACAACGA TACGCTAT	34362
7359	3671	UGUAAGUA A UGCCCCCA	13981	TGGGGGCA GGCTAGCTACAACGA TACTTACA	34363
7369	3661	GCCCCCAA A CACCAGGA	13982	TCCTGGTG GGCTAGCTACAACGA TTGGGGGC	34364
7377	3653	ACACCAGG A CUAGCAGA	13983	TCTGCTAG GGCTAGCTACAACGA CCTGGTGT	34365
7389	3641	GCAGAGCA A UCAGUAUA	13984	TATACTGA GGCTAGCTACAACGA TGCTCTGC	34366
7410	3620	GCAUGCUG A UCUGGCU	13985	AGCCAAGA GGCTAGCTACAACGA CAGCATGC	34367
7437	3593	UGCGAAGG A CCUCCUGG	13986	CCAGGAGG GGCTAGCTACAACGA CCTTCGCA	34368
7456	3574	GGCCAAGA A CACGACCA	13987	TGGTCGTG GGCTAGCTACAACGA CTTGGGCC	34369
7461	3569	AGAACACG A CCAGAAGG	13988	CCTTCTGG GGCTAGCTACAACGA CGTGTTC	34370
7474	3556	AAGGCCCA A CUGAAAAG	13989	CTTTTCAG GGCTAGCTACAACGA TGGGCCTT	34371
7488	3542	AAGGGUCA A UCAUAUCA	13990	TGATATGA GGCTAGCTACAACGA TGACCCTT	34372
7519	3511	CACUUGUG A CUGCACGA	13991	TCGTGCAG GGCTAGCTACAACGA CACAAGTG	34373
7557	3473	GUGGUCUG A UCUCUAUA	13992	TATGGAGA GGCTAGCTACAACGA CAGACCAC	34374
7574	3456	CCAUAACA A CAGCCGCU	13993	AGCGGCTG GGCTAGCTACAACGA TGGTATGG	34375
7631	3399	CAGCACCA A UCUGUUAU	13994	ATAACAGA GGCTAGCTACAACGA TGGTGTG	34376
7642	3388	UGUUAUCA A CUUCCGC	13995	GCGGAAAG GGCTAGCTACAACGA TGATAACA	34377
7707	3323	UCAGGGUG A CCGUAGUU	13996	AACTACGG GGCTAGCTACAACGA CACCCTGA	34378
7727	3303	GGGCAGUA A UCGAAGUC	13997	GACTTCGA GGCTAGCTACAACGA TACTGCCC	34379
7737	3293	CGAAGUCA A UCUCUACC	13998	GGTAGAGA GGCTAGCTACAACGA TGAATTCG	34380
7796	3234	GGUCUCCG A UUGUGAUU	13999	AATCACA GGCTAGCTACAACGA CGGAGACC	34381
7802	3228	CGAUUGUG A UUGCUUCC	14000	CGAAGCAA GGCTAGCTACAACGA CACAATCG	34382
7827	3203	CCAGUGUG A CUGGUUUU	14001	AATACCAG GGCTAGCTACAACGA CACACTGG	34383
7854	3176	UCUCAAGG A UUCAUCG	14002	CGATGGAA GGCTAGCTACAACGA CCTTGAGA	34384
7897	3133	CGUACAUG A UUUGACUU	14003	AAGTCAAA GGCTAGCTACAACGA CATGTACG	34385
7902	3128	AUGAUUUG A CUUCACCC	14004	GGGTGAAG GGCTAGCTACAACGA CAAATCAT	34386
7914	3116	CACCCAGA A CUGCCCUU	14005	AAGGGCAG GGCTAGCTACAACGA TCTGGGTG	34387
7956	3074	UGCUUUCA A UCCAAUAG	14006	CTATTGGA GGCTAGCTACAACGA TCGAAGCA	34388
7961	3069	UCAAUCCA A UAGGACAG	14007	CTGTCTTA GGCTAGCTACAACGA TGGATTGA	34389

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7966	3064	CCAAUAGG A CAGGUCAC	14008	GTGACCTG GGCTAGCTACAACGA CCTATTGG	34390
7980	3050	CACUGUGG A UCGCCAAG	14009	CTTGGCGA GGCTAGCTACAACGA CCACAGTG	34391
7998	3032	UGUUCUUG A CAGCCGUU	14010	AACGGCTG GGCTAGCTACAACGA CAAGAACA	34392
8010	3020	CCGUUCCA A UGAUCUUC	14011	GAAGATCA GGCTAGCTACAACGA TGGAACGG	34393
8013	3017	UUCCAAUG A UCUCGAG	14012	CTCGAAGA GGCTAGCTACAACGA CATTGGA	34394
8049	2981	UCUCUCUG A CCUUCAGG	14013	CCTGAAGG GGCTAGCTACAACGA CAGAGAGA	34395
8059	2971	CUUCAGGA A CAUCCGAG	14014	CTCGGATG GGCTAGCTACAACGA TCCTGAAG	34396
8078	2952	CUGGUGAG A CCAAUCC	14015	GGATTGGG GGCTAGCTACAACGA CTCACCAG	34397
8083	2947	GAGACCAA A UCCAAAU	14016	ATTTTGGG GGCTAGCTACAACGA TTGGTCTC	34398
8090	2940	AAUCCAAA A UCCUCCAC	14017	GTGGAGGA GGCTAGCTACAACGA TTTGGATT	34399
8120	2910	CAAGCGCG A UUCUGAGU	14018	ACTCAGAA GGCTAGCTACAACGA CGCGCTTG	34400
8132	2898	UGAGUCGG A CAUCCUU	14019	AAGGAATG GGCTAGCTACAACGA CCGACTCA	34401
8150	2880	GUCUCCGG A CCAUCAAC	14020	GTTGATGG GGCTAGCTACAACGA CCGGAGAC	34402
8157	2873	GACCAUCA A CCACAAAG	14021	CTTTGTGG GGCTAGCTACAACGA TGATGGTC	34403
8191	2839	UGGUGCAA A UAAAUAAC	14022	GTATTTTA GGCTAGCTACAACGA TTGCACCA	34404
8196	2834	CAAAUAAA A UACUCUUU	14023	AAAGAGTA GGCTAGCTACAACGA TTTATTTG	34405
8223	2807	UCCAGCCA A UUUCCA AU	14024	ATTGGA AA GGCTAGCTACAACGA TGGCTGGA	34406
8230	2800	AAUUUCCA A UUUUCCG	14025	CGGAAAAA GGCTAGCTACAACGA TGGAAATT	34407
8266	2764	AGGUGCUG A CUUGUACA	14026	TGTACAAG GGCTAGCTACAACGA CAGCACCT	34408
8292	2738	GUUUCUCA A CCACGACA	14027	TGTCGTGG GGCTAGCTACAACGA TGAGAAAC	34409
8298	2732	CAACCACG A CACUAAGG	14028	CCTTAGTG GGCTAGCTACAACGA CGTGTTTG	34410
8366	2664	CACAUUUG A UGCUCAG	14029	CTGGAGCA GGCTAGCTACAACGA CAAATGTG	34411
8382	2648	GUCUGGAA A CUGAUCGU	14030	ACGATCAG GGCTAGCTACAACGA TTCCAGAC	34412
8386	2644	GGAAACUG A UCGUAGAC	14031	GTCTACGA GGCTAGCTACAACGA CAGTTTCC	34413
8393	2637	GAUCGUAG A CCGCACAC	14032	GTGTGCGG GGCTAGCTACAACGA CTACGATC	34414
8424	2606	CUUCUGA A UGAUCUUG	14033	CAAGATCA GGCTAGCTACAACGA TCAGAAAG	34415
8427	2603	UCUGAAUG A UCUUGGCU	14034	AGCCAAGA GGCTAGCTACAACGA CATTGAGA	34416
8459	2571	UCAGGGUA A UACUUGUA	14035	TACAAGTA GGCTAGCTACAACGA TACCCTGA	34417
8503	2527	GUGUAUGA A CACUCCAC	14036	GTGGAGTG GGCTAGCTACAACGA TCATACAC	34418
8538	2492	GCCGGCUG A UGUCUAUG	14037	CATAGACA GGCTAGCTACAACGA CAGCCGGC	34419
8592	2438	AGAGCAGA A CUCCUCCA	14038	TGGAGGAG GGCTAGCTACAACGA TCTGTCTCT	34420
8601	2429	CUCCUCCA A CUGCGAGA	14039	TCTCGCAG GGCTAGCTACAACGA TGGAGGAG	34421
8611	2419	UGCGAGAA A CGUGAGAG	14040	CTCTCAGG GGCTAGCTACAACGA TTCTCGCA	34422
8626	2404	AGCUAUGG A CCUAUCAC	14041	GTGATAGG GGCTAGCTACAACGA CCATAGCT	34423
8643	2387	GAGCAUUG A UGCCAUC	14042	GATGGGCA GGCTAGCTACAACGA CAATGCTC	34424
8656	2374	CAUCCACA A CAGGAGAG	14043	CTCTCCTG GGCTAGCTACAACGA TGTGGATG	34425
8674	2356	CCCCAGCA A UCCUUGCG	14044	CGCAAGGA GGCTAGCTACAACGA TCTGGGGG	34426
8692	2338	UAUCCAGG A CAUGCCUC	14045	GAGGCATG GGCTAGCTACAACGA CCTGGATA	34427
8704	2326	GCCUCCGA A CAGUGAGC	14046	GCTCACTG GGCTAGCTACAACGA TCGGAGGC	34428
8716	2314	UGAGCGGA A UGCUCUC	14047	GAGGAGCA GGCTAGCTACAACGA TCCGCTCA	34429
8728	2302	UCCUCCGA A CACUUGAU	14048	ATCAAGTG GGCTAGCTACAACGA TCGGAGGA	34430
8735	2295	AACACUUG A UGGACAGC	14049	GCTGTCCA GGCTAGCTACAACGA CAAGTGT	34431
8739	2291	CUUGAUGG A CAGCCUUC	14050	GAGGGCTG GGCTAGCTACAACGA CCATCAAG	34432
8751	2279	CCUUCCCA A CUGAGGUG	14051	CACCTCAG GGCTAGCTACAACGA TGGGAAGG	34433
8761	2269	UGAGGUGA A CACCCUC	14052	GAGGGGTG GGCTAGCTACAACGA TCACCTCA	34434
8772	2258	CCCCUCCA A CUGAUCCA	14053	TGGATCAG GGCTAGCTACAACGA TGGAGGGG	34435
8776	2254	UCCAACUG A UCCAAGU	14054	ACTTTGGA GGCTAGCTACAACGA CAGTTGGA	34436
8853	2177	CUUUGCCA A UGCUGCUU	14055	AAGCAGCA GGCTAGCTACAACGA TGGCAAG	34437
8866	2164	GCUUCCAG A CUUGUGCC	14056	GGCACAAG GGCTAGCTACAACGA CTGGAAGC	34438
8876	2154	UUGUGCCA A UGGUGAUU	14057	AATCACCA GGCTAGCTACAACGA TGGCACAA	34439
8882	2148	CAAUGGUG A UUGAUCUG	14058	CAGATCAA GGCTAGCTACAACGA CACCATTG	34440
8886	2144	GGUGAUUG A UCUGUUGU	14059	ACAACAGA GGCTAGCTACAACGA CAATCACC	34441
8941	2089	UGGUUCCA A UUCAAUCA	14060	TGATTGAA GGCTAGCTACAACGA TGAACCA	34442
8946	2084	CCAAUCCA A UCAGGACC	14061	GGTCTTGA GGCTAGCTACAACGA TGAATTGG	34443
8952	2078	CAAUCAGG A CCUAGCG	14062	CGCTAAGG GGCTAGCTACAACGA CCTGATTG	34444
8979	2051	CCACUGAA A CAAAAGGG	14063	CCCTTTTG GGCTAGCTACAACGA TTCAGTGG	34445
8991	2039	AAGGGUUG A CAGUGACC	14064	GGTCACTG GGCTAGCTACAACGA CAACCTTT	34446
8997	2033	UGACAGUG A CCAUUCUG	14065	CAGATTGG GGCTAGCTACAACGA CACTGTCA	34447
9001	2029	AGUGACCA A UCUGCCCA	14066	TGGGCAGA GGCTAGCTACAACGA TGGTCACT	34448
9028	2002	GUCGUUCA A UGAAGCCA	14067	TGGCTTCA GGCTAGCTACAACGA TGAATGG	34449
9040	1990	AGCCACUG A CGAGAUG	14068	CTATCTCG GGCTAGCTACAACGA CAGTGCT	34450
9045	1985	CUGACGAG A UAGGAACU	14069	AGTTCTTA GGCTAGCTACAACGA CTCGTGAG	34451
9051	1979	AGAUAGGA A CUUUGCAA	14070	TTGCAAAG GGCTAGCTACAACGA TCCTATCT	34452

9085	1945	GUACUGCA A UUCCAACA	14071	TGTTGGAA GGCTAGCTACAACGA TGCAAGTAC	34453
9091	1939	CAAUCCA A CACCACAG	14072	CTGTGGTG GGCTAGCTACAACGA TGGAAATTG	34454
9107	1923	GUGCCGUG A CCUGUGUC	14073	GACACAGG GGCTAGCTACAACGA CACGGCAC	34455
9133	1897	CCCAAGAA A CUUGAAAG	14074	CTTTCAGG GGCTAGCTACAACGA TTCTTGGG	34456
9149	1881	GCCUUUGA A CAGACGCC	14075	GGCGTCTG GGCTAGCTACAACGA TCAAAGGC	34457
9153	1877	UUGAACAG A CGCCAUAG	14076	CTATGGCG GGCTAGCTACAACGA CTGTTCAA	34458
9175	1855	UCCCUUCA A CUGCAAUU	14077	AATTGCAG GGCTAGCTACAACGA TGAAGGGA	34459
9181	1849	CAACUGCA A UUUUCCA	14078	TGGA AAAA GGCTAGCTACAACGA TGCAGTTG	34460
9209	1821	CACUUCAA A UGACCCGA	14079	TCGGGTCA GGCTAGCTACAACGA TTGAAGTG	34461
9212	1818	UUCAAAUG A CCCGACGU	14080	ACGTCGGG GGCTAGCTACAACGA CATTTGAA	34462
9217	1813	AUGACCCG A CGUCAACU	14081	AGTTGACG GGCTAGCTACAACGA CGGGTCAT	34463
9223	1807	CGACGUCA A CUUGACAG	14082	CTGTCAAG GGCTAGCTACAACGA TGACGTCG	34464
9228	1802	UCAACUUG A CAGUGUUG	14083	CAACACTG GGCTAGCTACAACGA CAAGTTGA	34465
9244	1786	GCUUGAAA A UUCCACAG	14084	CTGTGGAA GGCTAGCTACAACGA TTTCAAGC	34466
9255	1775	CCACAGGA A UGGCUCCA	14085	TGGAGCCA GGCTAGCTACAACGA TCCTGTGG	34467
9275	1755	AAAGCUUG A UGCAGAGC	14086	GCTCTGCA GGCTAGCTACAACGA CAAGCTTT	34468
9301	1729	UGAGCCCA A UGCUAUCA	14087	TGATAGCA GGCTAGCTACAACGA TGGGCTCA	34469
9313	1717	UAUCACAG A CUGCUUCG	14088	CGAAGCAG GGCTAGCTACAACGA CTGTGATA	34470
9340	1690	UUCUCUAA A CUCCAUUA	14089	TAATGGAG GGCTAGCTACAACGA TTGAGGAA	34471
9349	1681	CUCCAUUA A CGUCUCUC	14090	GAGAGACG GGCTAGCTACAACGA TAATGGAG	34472
9412	1618	GUCCAUGA A CCACUCAC	14091	TGAGTGGG GGCTAGCTACAACGA TCATGGAC	34473
9422	1608	CACUCACG A UGGACCAA	14092	TTGGTCCA GGCTAGCTACAACGA CGTGAGTG	34474
9426	1604	CACGAUGG A CCAAGAAC	14093	GTTCTTGG GGCTAGCTACAACGA CCATCGTG	34475
9433	1597	GACCAAGA A CGUCUUUG	14094	CAAAGACG GGCTAGCTACAACGA TCTTGGTC	34476
9447	1583	UUGUUGCA A CAGUCAUC	14095	GATGACTG GGCTAGCTACAACGA TGGAAACAA	34477
9477	1553	UGGUGUCA A UCCUGAC	14096	GTCAGGGA GGCTAGCTACAACGA TGACACCA	34478
9484	1546	AAUCCUG A CCGUGGUU	14097	AACCACGG GGCTAGCTACAACGA CAGGGATT	34479
9558	1472	CAGGAGUG A UGCUGAAU	14098	ATTCAGCA GGCTAGCTACAACGA CACTCCTG	34480
9565	1465	GAUGCUGA A UCUCUUG	14099	CAGGGAGA GGCTAGCTACAACGA TCAGCATC	34481
9588	1442	UGGCUCCA A CCUGUGUG	14100	CACACAGG GGCTAGCTACAACGA TGCAGCCA	34482
9613	1417	UCCGUGCG A CUCCACAG	14101	CTGTGGAG GGCTAGCTACAACGA CGCAGCGA	34483
9636	1394	GUCCAUGG A CAAAAAUG	14102	CATTTTTT GGCTAGCTACAACGA CCATGGAC	34484
9642	1388	GGACAAA A UGGCCACU	14103	AGTGGCCA GGCTAGCTACAACGA TTTTGTCC	34485
9660	1370	CGUACUUG A UAUUCUCU	14104	AGAGAATA GGCTAGCTACAACGA CAAGTACG	34486
9675	1355	CUUUCAAG A UGGUUCUU	14105	AGAACCAC GGCTAGCTACAACGA CTTGAAAG	34487
9709	1321	GCAGGCAA A UUUGGCGC	14106	GCGCCAAA GGCTAGCTACAACGA TTGCCTGC	34488
9726	1304	AUGUGUCA A UGCUUCCU	14107	AGGAAGCA GGCTAGCTACAACGA TGACACAT	34489
9742	1288	UUUGCCAA A UAAUCCGC	14108	CGGGATTA GGCTAGCTACAACGA TTGGCAAA	34490
9745	1285	GCCAAUA A UCCGCAGC	14109	GCTGCGGA GGCTAGCTACAACGA TATTTGGC	34491
9863	1167	GUGGAGAG A UCGCUGAC	14110	GTCAGCGA GGCTAGCTACAACGA CTCTCCAC	34492
9870	1160	GAUCGUG A CGGUAGCC	14111	GGCTACCG GGCTAGCTACAACGA CAGCGATC	34493
9881	1149	GUAGCCAA A UAGCAAUA	14112	TATTGCTA GGCTAGCTACAACGA TTGGCTAC	34494
9887	1143	AAAUAGCA A UAACUGCG	14113	CGCAGTTA GGCTAGCTACAACGA TGCTATTT	34495
9890	1140	UAGCAAUA A CUGCGGAC	14114	GTCCGCAG GGCTAGCTACAACGA TATTGCTA	34496
9897	1133	AACUGCGG A CCUCUGCC	14115	GGCAGAGG GGCTAGCTACAACGA CCGCAGTT	34497
9912	1118	CCAGGUUG A CCGCUCC	14116	GGAGGCGG GGCTAGCTACAACGA CAACCTGG	34498
9942	1088	UCACAUUG A UGGUAGGC	14117	GCCTACCA GGCTAGCTACAACGA CGATGTGA	34499
9961	1069	GUCCUUG A CAUGAUAG	14118	CTATCATG GGCTAGCTACAACGA CTAAGGAC	34500
9966	1064	UAGACAUG A UAGUCACG	14119	CGTGAATA GGCTAGCTACAACGA CATGTCTA	34501
9993	1037	CUUCGAGA A CCAAUCC	14120	GGATTTGG GGCTAGCTACAACGA TCTCGAAG	34502
9998	1032	AGAACCAC A UCCACCCA	14121	TGGGTGGA GGCTAGCTACAACGA TTGTTTCT	34503
10018	1012	UGCUCAG A CACUCCUU	14122	AAGGAGTG GGCTAGCTACAACGA CTGGAGCA	34504
10090	940	CAAAGCA A UAGCACGA	14123	TCGTGCTA GGCTAGCTACAACGA TGCTTTTG	34505
10098	932	AUAGCACG A CAAACACA	14124	TGTGTTTG GGCTAGCTACAACGA CGTGCTAT	34506
10102	928	CACGACAA A CACAACUC	14125	GAGTTGTG GGCTAGCTACAACGA TTGTGCTG	34507
10107	923	CAAACACA A CUCUCUGC	14126	GCAGAGAG GGCTAGCTACAACGA TGTGTTTG	34508
10139	891	AGCAUCCA A CCAAUGAC	14127	GTCATTGG GGCTAGCTACAACGA TGGATGCT	34509
10143	887	UCCAACCA A UGACGGCU	14128	AGCCGTCA GGCTAGCTACAACGA TGTTTGGA	34510
10146	884	AACCAAUG A CGGUGGCC	14129	GGCAGCCG GGCTAGCTACAACGA CATGGTTT	34511
10182	848	UCCUCAAG A UCCAUGAU	14130	ATCATGGA GGCTAGCTACAACGA CTTGAGGA	34512
10189	841	GAUCCAUG A UUCUGUUU	14131	AAACAGAA GGCTAGCTACAACGA CATGGATC	34513
10205	825	UUUACCAA A UACCUUGU	14132	ACAAGGTA GGCTAGCTACAACGA TTGGTAAA	34514
10288	742	UGUCAGUG A CCUCCGAC	14133	GTCGGAGG GGCTAGCTACAACGA CACTGACA	34515

10295	735	GACCUCCG A CUGCGUCU	14134	AGACGCAG GGCTAGCTACAACGA CGGAGGTC	34516
10338	692	CAUACCUG A CGUAGACU	14135	AGTCTACG GGCTAGCTACAACGA CAGGTATG	34517
10344	686	UGACGUAG A CUGCUGAC	14136	GTCAGCAG GGCTAGCTACAACGA CTACGTCA	34518
10351	679	GACUGCUG A CUUUGUGC	14137	GCACAAAG GGCTAGCTACAACGA CAGCAGTC	34519
10364	666	GUGCACCA A CAGUCGAU	14138	ATCGACTG GGCTAGCTACAACGA TGGTGCAC	34520
10371	659	AACAGUCG A UGUCUUCU	14139	AGAAGACA GGCTAGCTACAACGA CGACTGTT	34521
10382	648	UCUUCUGG A UCAUUAAC	14140	GGTAATGA GGCTAGCTACAACGA CCAGAAGA	34522
10396	634	ACCAGCCG A CAGCACUG	14141	CAGTGCTG GGCTAGCTACAACGA CGGCTGGT	34523
10419	611	CAUAAGUG A UAGUAUCA	14142	TGATACTA GGCTAGCTACAACGA CACTTATG	34524
10458	572	UUGCUCUG A CAAUGCAU	14143	ATGCATTG GGCTAGCTACAACGA CAGAGCAA	34525
10461	569	CUCUGACA A UGCAUAGG	14144	CCTATGCA GGCTAGCTACAACGA TGTCAAG	34526
10491	539	CUGUUGGA A UCGUGAUG	14145	CATCACGA GGCTAGCTACAACGA TCCAACAG	34527
10497	533	GAUUCGUG A UGACAUUCU	14146	AGATGTCA GGCTAGCTACAACGA CACGATTG	34528
10500	530	UCGUGAUG A CAUCUGUG	14147	CACAGATG GGCTAGCTACAACGA CATCACGA	34529
10509	521	CAUCUGUG A CGUCAGUA	14148	TACTGACG GGCTAGCTACAACGA CACAGATG	34530
10563	467	AGAGGGUA A CUGCUCCU	14149	AGGAGCAG GGCTAGCTACAACGA TACCTCT	34531
10581	449	CGCUGGCG A UCAGGCCA	14150	TGGCCTGA GGCTAGCTACAACGA CGCCAGCG	34532
10590	440	UCAGGCCA A UCAUGACU	14151	AGTCATGA GGCTAGCTACAACGA TGGCCTGA	34533
10596	434	CAUCAUG A CUGCAAUU	14152	AATTGCAG GGCTAGCTACAACGA CATGATTG	34534
10602	428	UGACUGCA A UUCCGGUC	14153	GACCGGAA GGCTAGCTACAACGA TGCAGTCA	34535
10646	384	CUCCGCCG A UUGAUAGC	14154	GCTATCAA GGCTAGCTACAACGA CGGCGGAG	34536
10650	380	GCCGAUUG A UAGCACUG	14155	CAGTGCTA GGCTAGCTACAACGA CAATCGGC	34537
10685	345	UUCUAAA A CUCAGAAG	14156	CTTCTGAG GGCTAGCTACAACGA TTTAAGAA	34538
10733	297	CUCCAUCG A UCCAGCAC	14157	GTGCTGGA GGCTAGCTACAACGA CGATGGAG	34539
10758	272	UCGAGCA A UUGCUGUG	14158	CACAGCAA GGCTAGCTACAACGA TGCTCCGA	34540
10768	262	UGCUGUGA A CCUGAAGA	14159	TCTTCAGG GGCTAGCTACAACGA TCACAGCA	34541
10777	253	CCUGAAGA A CGCCAAGA	14160	TCTTGGCG GGCTAGCTACAACGA TCTTCAGG	34542
10792	238	GAGAGCCA A CACAAUUC	14161	GATTTGTG GGCTAGCTACAACGA TGGCTCTC	34543
10798	232	CAACACAA A UCGUAUUG	14162	CAATACGA GGCTAGCTACAACGA TTGTGTTG	34544
10821	209	UGCCGUCG A UCAGGCUC	14163	GAGCCTGA GGCTAGCTACAACGA CGACGCCA	34545
10831	199	CAGGCUCA A CAUAGCCC	14164	GGGCTATG GGCTAGCTACAACGA TGAGCCTG	34546
10851	179	UCAGUCCA A UCAAGGAC	14165	GTCCTTGA GGCTAGCTACAACGA TGGACTGA	34547
10858	172	AAUCAAGG A CAACACGC	14166	GCGTGTG GGCTAGCTACAACGA CCTTGATT	34548
10861	169	CAAGGACA A CACGCGGG	14167	CCGCGGTG GGCTAGCTACAACGA TGTCTTGT	34549
10893	137	GCAUAUUG A CAGCCCGG	14168	CCGGGCTG GGCTAGCTACAACGA CAATATGC	34550
10930	100	UUUCUUG A CAUCGAGA	14169	TCTCGATG GGCTAGCTACAACGA CTAAGAAA	34551
10938	92	ACAUCGAG A UCUUCGUG	14170	CACGAAGA GGCTAGCTACAACGA CTCGATGT	34552
10954	76	GCUAAGAA A CAGCUCGC	14171	GCGAGCTG GGCTAGCTACAACGA TTCTTAGC	34553
10972	58	CUGUGUUA A UUGUUGUU	14172	AACAACAA GGCTAGCTACAACGA TAACACAG	34554
10982	48	UGUUGUUA A UCCUCACA	14173	TGTGAGGA GGCTAGCTACAACGA TAACAACA	34555
10992	38	CCUCACAA A CACUACUA	14174	TAGTAGTG GGCTAGCTACAACGA TTGTGAGG	34556

Input Sequence = AF196835_rc. Cut Site = R/Y

Arm Length = 8. Core Sequence = GGCTAGCTACAACGA

AF196835_rc reverse complement of West Nile virus strain NY99-flamingo382-99, complete genome

Table XII

Table XII: WNV minus strand Amberzyme and Target Sequence

Pos	Pos (+str)	Substrate	Seq ID	Ribozyme	Rz Seq ID
10	11020	GAUCUGU G UUCUGCA	12272	UGCGAGAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG ACAGGAUC	34557
16	11014	GUGUUCU G CACCACCA	12273	UGGUGUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG GAGAACAC	34558
25	11005	CACCACCA G CCACCAU	12274	AUUGUGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG UGGUGGUG	34559
34	10996	CCACCAU G UCGGCGCA	12275	UGCGCCGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AAUGGUGG	34560
38	10992	CAUGUCG G CGCACUG	12276	ACAGUGCG GGAGGAAACUCCUUAAGGACAUCGUCGCGG CGACAAUG	34561
40	10990	UUGUCGC G CACUGGC	12277	GCACAGUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG GCCGACAA	34562
45	10985	GGCGCACU G UGCGUGU	12278	ACACGGCA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AGUGCGCC	34563
47	10983	CGCACUGU G CCGUGUG	12279	CCACACGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG ACAUGUCG	34564
50	10980	ACUGGCC G UGUGGUG	12280	CAGCCACA GGAGGAAACUCCUUAAGGACAUCGUCGCGG GGCACAGU	34565
52	10978	UGUGCCG G UGCGUGU	12281	ACCAGCCA GGAGGAAACUCCUUAAGGACAUCGUCGCGG ACGGCACA	34566
55	10975	GCGUGUG G CUGGUUG	12282	ACAACCAAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG CACACGGC	34567
59	10971	UGUGGCG G UUGGCAG	12283	CUGCACAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG CAGCCACA	34568
62	10968	GGCUGGUU G UGCAGAG	12284	GCUCUGCA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AACACAGC	34569
64	10966	CUGGUUG G CAGAGCAG	12285	CUGCUCUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG ACAACCAAG	34570
69	10961	UGUCGAG G CAGAAGU	12286	AUCUUCUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG UCUGCACA	34571
84	10946	AUCUCCA G UCUAUCC	12287	GGGAUAGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG UAGGAGAU	34572
95	10935	UAUCCAG G UGUCAUA	12288	UAUUGACA GGAGGAAACUCCUUAAGGACAUCGUCGCGG CUGGGAU	34573
97	10933	UCCAGGU G UCAUAUG	12289	CAUAUUGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG ACCUGGGA	34574
105	10925	GUCAUAU G CUGUUGU	12290	CAAAACAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG AUUUGAC	34575
108	10922	AAUUGCU G UUUUGUG	12291	CAACAAAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AGCAUAU	34576
113	10917	GCUGUUU G UUGUGGUG	12292	CACCACAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AAAACAGC	34577
116	10914	GUUUUUU G UGGUGUU	12293	AAACACCA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AACAAAA	34578
119	10911	UUGUUGU G UGUUUUG	12294	ACAAACA GGAGGAAACUCCUUAAGGACAUCGUCGCGG CACAAACA	34579
121	10909	GUUGUGU G UUUUGUG	12295	CCACAAAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG ACCACAC	34580
126	10904	GUUUUUU G UGCACCG	12296	CCGUGCCA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AAAACACC	34581
129	10901	GUUUUGU G CAGGGGU	12297	ACCCGUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG CACAAAC	34582
136	10894	GGCACGG G UCUCACU	12298	AGUGGAGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG CCCUGGCC	34583
153	10877	AACCUCU G UCUUCC	12299	GGGAAGGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG UAGAGGU	34584
172	10858	GACCUCA G CUUCAGC	12300	GACUGAAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG UGUAGGUC	34585
178	10852	CAGCUCA G UCAGGUG	12301	CAGCCUGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG UGAAGCUG	34586
183	10847	UCAGUCAG G CUGGGCG	12302	CGGCCAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG CUGACUGA	34587
188	10842	CAGGCUUG G CCGUGC	12303	GUGCACGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG CCAGCCUG	34588
191	10839	GCUGGCG G UGCACUU	12304	AAAGUGCA GGAGGAAACUCCUUAAGGACAUCGUCGCGG GGCCACG	34589
193	10837	UGGCGCG G CACUUUA	12305	UUAAAGUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG ACGGCCCA	34590
205	10825	UUUAAAC G CGGGGUCU	12306	AGAACC CG GGAGGAAACUCCUUAAGGACAUCGUCGCGG GUUUAAA	34591
210	10820	ACCGCGG G UCUCUCU	12307	AGAGGAGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG CCCGCCGU	34592

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227	10803	AACUCUA	G	UCCUUUG	12308	CGAAAGGA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UAGAGGUU	34593
235	10795	GUUUUUC	G	CCUGGUU	12309	AACCAAGG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GAAAGGAC	34594
241	10789	UCGCCUG	G	UUAACAC	12310	GGUUAUA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CAGGGCGA	34595
259	10771	UUACCGG	G	CUAGGGC	12311	GGCCUAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CCCGGUAA	34596
265	10765	GGCUAGG	G	CCGCGUG	12312	CCACGCG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CCUAGCCC	34597
268	10762	CUAGGGC	G	CGUGGGC	12313	GCCCCAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GGCCCUAG	34598
270	10760	AGGCCCG	G	UGGGCGU	12314	ACGCCCA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GGCCCUUG	34599
275	10755	CGGUGGG	G	CGUUGGU	12315	AACCAAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GGCCCUUG	34600
277	10753	CGUGGGC	G	UUGGUUU	12316	CAACCAA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GGCCCUAG	34601
281	10749	GGGCUUG	G	UUUGCCU	12317	AAGGCAA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CAACGCC	34602
285	10745	GUUGGUU	G	CCUUUGU	12318	AACAAAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AAACCAAC	34603
291	10739	UUGCCUU	G	UUAACCA	12319	UGGUUA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AAAGGCAA	34604
300	10730	UUAACCA	G	UCCUCCU	12320	CAGGGA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGGGUUA	34605
311	10719	CUCCUGG	G	CACUAUC	12321	CGAUGUG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CCCAGGAG	34606
319	10711	GCACUAV	G	CAGACUG	12322	GCAGUCG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GAUAGUGC	34607
326	10704	CGCAGAC	G	CACUCUC	12323	GGAGUGG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AGUCUGCG	34608
335	10695	CACUCUC	G	CAGAGUAG	12324	CUACUCU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GGAGAGUG	34609
340	10690	UCCGCAG	G	UAGCAUG	12325	GCUGGUA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UCUGCGGA	34610
343	10687	GCAGAGU	G	CACGCCU	12326	ACGGCGU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UACUCUGC	34611
347	10683	AGUAGAC	G	CCGUAGC	12327	CGCUACG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GUGCUACU	34612
350	10680	AGCAGCC	G	UAGCGUG	12328	CCAGCUA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GGCGUGCU	34613
353	10677	ACGCCUA	G	CGUGGUC	12329	AGACCAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UACGGCGU	34614
355	10675	GCAGUAG	G	UGGUCUG	12330	UCAGACCA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GCUACGGC	34615
358	10672	GUAGCGU	G	UCUGACU	12331	AUGUCAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CACGCUAC	34616
370	10660	GACUUGG	G	CUUGAAG	12332	CUUCAA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CCAUGUUC	34617
378	10652	GUUUGAA	G	UUAACA	12333	UGUUGUA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UUCAAAGC	34618
388	10642	UACACAU	G	UGGGUCC	12334	GGACCCA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AUGUUGUA	34619
393	10637	CAUGUGG	G	UCCUCCU	12335	AAGGAGA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CCCACAUG	34620
410	10620	CCGAGAC	G	UUCGAGG	12336	CCUCAGA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CGUCUCGG	34621
419	10611	UUCGAGG	G	CUUACA	12337	CAUGUAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CCUCAGAA	34622
437	10593	AUCACUC	G	CGGCUUG	12338	CAAAGCG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GAAGUGAU	34623
440	10590	ACUUGCG	G	CUUUGUUC	12339	GAACAAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CGCGAAGU	34624
445	10585	GCAGCUU	G	UUCACCA	12340	UGGUGAA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AAAGCCGC	34625
454	10576	UUCACCA	G	UCCUCCU	12341	CAGGAGA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGGGUGAA	34626
465	10565	CUCCUGG	G	UUGAGUC	12342	CGACUAA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CCCAGGAG	34627
470	10560	GGGUGUA	G	UCGCGGC	12343	GCUCGCA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UCAACCCC	34628
473	10557	GUUGAGU	G	CAGCAGC	12344	GTCUCCU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GACUCRAC	34629
477	10553	AGUCGAG	G	CAGCACG	12345	CGGUGUG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CUGCGACU	34630
480	10550	CGCAGGA	G	CACCGUC	12346	AGACGGU	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGCCUGCG	34631
485	10545	GCAGACC	G	UCUACUA	12347	UGAGUAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GGUGCUGC	34632

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501	10529	AACUCCG G	UGGCGGA	12348	UCCCGCA	GGAGAAACUCCUUAAGGACAUCGUCGGG	CGGAAGUU	34633
504	10526	UUCGGUG G	CGGGAACU	12349	AGUCCCG	GGAGAAACUCCUUAAGGACAUCGUCGGG	CACCGAA	34634
518	10512	ACUCCCG G	CCUGACUU	12350	AAGUCAG	GGAGAAACUCCUUAAGGACAUCGUCGGG	CGGAAAGU	34635
595	10435	ACUUUAU G	CAUACUUA	12351	UAGUAUG	GGAGAAACUCCUUAAGGACAUCGUCGGG	AUAAAAGU	34636
608	10422	CUUAUAU G	UCUAUUA	12352	UAAUAUA	GGAGAAACUCCUUAAGGACAUCGUCGGG	AAUAUAAG	34637
637	10393	UAUUAUA G	UACUUGU	12353	ACACAGUA	GGAGAAACUCCUUAAGGACAUCGUCGGG	UGUAGAU	34638
642	10388	ACAGUAC G	UGUCCUCA	12354	UGAGACA	GGAGAAACUCCUUAAGGACAUCGUCGGG	AGUACUGU	34639
644	10386	AGUACUG G	UCCUCAAC	12355	GUUGAGGA	GGAGAAACUCCUUAAGGACAUCGUCGGG	ACAGUACU	34640
657	10373	CAACCAA G	UUUGUCU	12356	AGACACAA	GGAGAAACUCCUUAAGGACAUCGUCGGG	UUUGUUG	34641
660	10370	CCAAGUU G	UGUCUUA	12357	UGAAGACA	GGAGAAACUCCUUAAGGACAUCGUCGGG	AACUUUGG	34642
662	10368	AAAGUUG G	UCUUAUA	12358	UAUGAAGA	GGAGAAACUCCUUAAGGACAUCGUCGGG	ACAACUUU	34643
679	10351	UCUCUUA G	UGAACUCA	12359	UGAGUUA	GGAGAAACUCCUUAAGGACAUCGUCGGG	UAAAGAGA	34644
689	10341	GAACUAU G	UAAUCCAC	12360	GUGUAUA	GGAGAAACUCCUUAAGGACAUCGUCGGG	AUGAGUUC	34645
720	10310	CGAUAUU G	CUCUGACU	12361	AGUCAGAG	GGAGAAACUCCUUAAGGACAUCGUCGGG	AAUCAUCG	34646
731	10299	CUGACUUG G	UGAUAGC	12362	GCUAUCAA	GGAGAAACUCCUUAAGGACAUCGUCGGG	CAAGUCAG	34647
738	10292	GGUUAUA G	CCACCUGG	12363	CCAGGUGG	GGAGAAACUCCUUAAGGACAUCGUCGGG	UAUCAACC	34648
749	10281	ACUUGAU G	UUUUCUGC	12364	GCAGAAA	GGAGAAACUCCUUAAGGACAUCGUCGGG	AUCCAGGU	34649
756	10274	UGUUUUC G	CCCACGUG	12365	CACGUGGG	GGAGAAACUCCUUAAGGACAUCGUCGGG	AGAAAACA	34650
762	10268	CUGCCAC G	UGGUCGCG	12366	CCGAGCCA	GGAGAAACUCCUUAAGGACAUCGUCGGG	GUGGGCAG	34651
765	10265	CCACGUG G	CUCGGGCU	12367	AGCCCGAG	GGAGAAACUCCUUAAGGACAUCGUCGGG	CACGUGGG	34652
771	10259	UGGUCGG G	CUCUGUG	12368	CACAAGAG	GGAGAAACUCCUUAAGGACAUCGUCGGG	CCGAGCCA	34653
777	10253	GGCUCUU G	UGCCAAUC	12369	GAUUGCA	GGAGAAACUCCUUAAGGACAUCGUCGGG	AAGAGCCC	34654
779	10251	GCUCUUG G	CCAUAUCAG	12370	CUGAUUGG	GGAGAAACUCCUUAAGGACAUCGUCGGG	ACAAGAGC	34655
788	10242	CCAUAUC G	CUGCCACA	12371	UGUGGCAG	GGAGAAACUCCUUAAGGACAUCGUCGGG	CUGAUUGG	34656
791	10239	AUCAGGU G	CCACACCA	12372	UGGUGUGG	GGAGAAACUCCUUAAGGACAUCGUCGGG	AGCCUGAU	34657
803	10227	CACCAAU G	UCCUCUCG	12373	CGAGAGGA	GGAGAAACUCCUUAAGGACAUCGUCGGG	AUCUGGUG	34658
811	10219	GUCCUCU G	UUUUCUUG	12374	CAGGAAA	GGAGAAACUCCUUAAGGACAUCGUCGGG	GAGAGGAC	34659
830	10200	UAUGGAC G	UCACUCCA	12375	UGGAGUGA	GGAGAAACUCCUUAAGGACAUCGUCGGG	GUCCCAUA	34660
852	10178	CCACUGG G	UUUUGUCU	12376	AGACAAA	GGAGAAACUCCUUAAGGACAUCGUCGGG	CCCAGUGG	34661
857	10173	GGGUUUU G	UCUCCAU	12377	AUGGAAGA	GGAGAAACUCCUUAAGGACAUCGUCGGG	AAAACCCC	34662
893	10137	CAAACAG G	UUCAGAC	12378	GUUGGAA	GGAGAAACUCCUUAAGGACAUCGUCGGG	CGUGUUUG	34663
911	10119	UCCAACU G	UCCUCUGU	12379	ACAGAGGA	GGAGAAACUCCUUAAGGACAUCGUCGGG	AGUUUGGA	34664
918	10112	UGUCCUCU G	UGUGCAUC	12380	GAUGACAA	GGAGAAACUCCUUAAGGACAUCGUCGGG	AGAGGACA	34665
921	10109	CCUCUGU G	UCAUCCAC	12381	GUGGAUGA	GGAGAAACUCCUUAAGGACAUCGUCGGG	AACAGAGG	34666
939	10091	CUCCUCU G	CAUGGAUG	12382	CAUCCAUG	GGAGAAACUCCUUAAGGACAUCGUCGGG	AGGAGGAG	34667
954	10076	UGGACCAC G	UGGUUCUU	12383	AAGAACCA	GGAGAAACUCCUUAAGGACAUCGUCGGG	GUGGUCCA	34668
957	10073	ACCACGUG G	UUUUUCCG	12384	CGGAAGAA	GGAGAAACUCCUUAAGGACAUCGUCGGG	CACGUGGU	34669
966	10064	UUUUUCCG G	UAGGGACC	12385	GGUCCCTA	GGAGAAACUCCUUAAGGACAUCGUCGGG	CGGAAGAA	34670
990	10040	CAGGACA G	CGAGACAA	12386	UUGUCUGG	GGAGAAACUCCUUAAGGACAUCGUCGGG	UGUCCUG	34671
995	10035	ACAGCGGA G	CAAAUGGC	12387	GCCAUUUG	GGAGAAACUCCUUAAGGACAUCGUCGGG	UCCGUGU	34672

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1002	10028	AGCAAUG G CGUUGGCC	12388	GGCCAAAG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	CAUUUGCU	34673
1004	10026	CAAAUGG G UUGGCCAU	12389	AUGGCCAA	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	GCCAUUUG	34674
1008	10022	UGGCGUUG G CCAUGAGC	12390	GCUCAUGG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	CAACGCCA	34675
1015	10015	GGCAUGA G CCGCAGGU	12391	ACCUGCGG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	UCAUGGCC	34676
1018	10012	CAUGAGC G CAGGUCUC	12392	GAGACUG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	GGCUCADG	34677
1022	10008	AGCGCAG G UCUCUUCU	12393	AGAAGACA	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	CUGCGGCU	34678
1031	9999	UCUCUUCU G UGGAAGUA	12394	UACUCCA	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	AGAAAGAG	34679
1037	9993	CUGUGGAA G UACAGAAG	12395	CUUCUGUA	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	UUCACACAG	34680
1045	9985	GUACAGAA G CAGCCACA	12396	UGUGGUCG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	UUCUGUAC	34681
1048	9982	CAGAAGCA G CCACAUCU	12397	AGAUGGG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	UGCUCUCG	34682
1059	9971	ACAUCUG G CAUAAGAC	12398	GUUUUUG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	CCAGAUGU	34683
1071	9959	AAGACUUA G CCAGACAA	12399	UUGUCUGG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	UAAAGUCUU	34684
1080	9950	CCAGACAA G CAGUGUCG	12400	CGACACUG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	UUGUCUGG	34685
1083	9947	GACAAGCA G UGUCGCGG	12401	CCGCGACA	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	UGCUCUGC	34686
1085	9945	CAGCAGU G UCGCGGAC	12402	GUCCGGGA	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	ACUGCUCG	34687
1088	9942	GCAGUC G CCGACGUU	12403	AACGUCCG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	GACACUGC	34688
1094	9936	UCGGGAC G UUCAUCC	12404	GAUGGAA	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	GCCGCCGA	34689
1104	9926	UCAUCCG G CCGUGGA	12405	UCCAGGGG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	CGGAUGGA	34690
1118	9912	GGAGAUU G CGAGCUCU	12406	AGAGCUCG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	AUAUCUCC	34691
1122	9908	AUAUGCA G CUCUGCCU	12407	AGGACAG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	UCGCAUAD	34692
1127	9903	CGAGTCU G CCUACCAA	12408	UUGGUAGG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	AGAGCUCG	34693
1144	9886	UUAUCCU G UCCUCGGC	12409	GCCGAGGA	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	AGGAUGAA	34694
1151	9879	UGUCCUCG G CAUGGAAC	12410	GUUCCAUG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	CGAGGACA	34695
1165	9865	AACACCA G UGUUUCU	12411	GAAGACA	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	UGGUGGUU	34696
1167	9863	CAACAGU G UUCUCCA	12412	UGGAAGAA	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	ACUGGUGG	34697
1194	9836	UCAAUCA G UGAAUUG	12413	CCAUTUCA	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	UGAAUUGA	34698
1202	9828	GUGAAUG G UUUGAGCA	12414	UGCUCAAA	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	CAUUCAC	34699
1208	9822	UGGUUGA G CAAAUGG	12415	CCAUTUUG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	UCAAACCA	34700
1222	9808	UGGAACCU G CUGCCAAU	12416	AUUGGCAG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	AGGUUCCA	34701
1225	9805	AACUGCU G CCAUCAU	12417	AUGAUUGG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	AGCAGGUU	34702
1242	9788	ACCAUCCA G UUGACGGU	12418	ACCGUCAA	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	UGGAUGGU	34703
1249	9781	AGUUGACG G UUUCACU	12419	AGUGGAAA	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	CGUCAACU	34704
1265	9765	UCUUGGAU G UCUUUGCG	12420	CGCAAGA	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	AUCCAAAG	34705
1271	9759	AUGUCUUU G CGAACCUU	12421	AAGUUCG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	AAAGACAU	34706
1287	9743	UUGACAU G CAUUGAGG	12422	CCUCAUUG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	UAUGUCA	34707
1298	9732	UUGAGGAA G UGGAGCGA	12423	UCGCUCCA	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	UUUCUCA	34708
1303	9727	GAAUGGA G CGAGGUGG	12424	CCACUUCG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	UCCACUUC	34709
1308	9722	GGAGCGAG G UGGCAAG	12425	CUUUGCCA	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	CUCGCUC	34710
1311	9719	GCAGGUG G CAAAGCGA	12426	UCGUUUUG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	CACUUCG	34711
1316	9714	GUGGCAA G CGAUUGUC	12427	GACGAUCG	GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG	UUUGCCAC	34712

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1322	9708	AAGGAUC G UCCAGGG	12428	CCCCUGGA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GAUCGCUU	34713
1330	9700	GUCCAGG G CUUACCA	12429	UGGUAAAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CCCUGGAC	34714
1343	9687	ACCACACA G UCAUUCU	12430	GGAGAUGA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGUGUGGU	34715
1359	9671	CACGACA G CCAUGCG	12431	CCGCAUGG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGUCAGUG	34716
1364	9666	ACAGCCAU G CGGUGAG	12432	CUCAGCCG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AUGGCUUG	34717
1367	9663	GCCAGCG G CUGAGUCU	12433	AGACUCAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CGCAUGGC	34718
1372	9658	GCGCUGA G UCUUUCU	12434	AAGAAAGA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UCAGCCGC	34719
1396	9634	CUCAACA G CCAGGUCC	12435	GGACUUGG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGUUUGAG	34720
1401	9629	ACAGCCAG G UCCUGACU	12436	AGUCAGGA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CUGGCUUG	34721
1414	9616	GACTUUGG G UCCUUUC	12437	GGAAAGGA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CCAAAGUC	34722
1428	9602	UCCUUUU G UGAGUUUC	12438	GAAACUCA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AAAAGGGA	34723
1432	9598	UUUGUGA G UUCUCCA	12439	UGGAGAAA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UCACAAAA	34724
1451	9579	UCAUCUGG G CCAUACAC	12440	GUGAUUGG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CCAGAUGA	34725
1486	9544	CCUACACA G CUGGACGG	12441	CCGUCCAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGGUGAGG	34726
1494	9536	GCTUGACG G CCAGGUUG	12442	CAACCUUG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CGUCCAGC	34727
1499	9531	ACGGCCAG G UUGGUGAA	12443	UUCACCAA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CUGGCCGU	34728
1503	9527	CCAGGUUG G UGAAAGUG	12444	CACUUGCA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CAACCUUG	34729
1509	9521	UGUGGAAA G UGUUAGG	12445	CUUAAACA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UUUCACCA	34730
1511	9519	GUGAAAGU G UUUAGGG	12446	GCCCUAAA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	ACUUUCAC	34731
1518	9512	UGUUUAGG G CGUAGUG	12447	CACCUACG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CCUAAACA	34732
1520	9510	UUUAGGGC G UAGUGAC	12448	GUCACCUA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GCCCUAAA	34733
1524	9506	GGCGUAG G UGACAACU	12449	AGUUUGCA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CUACGCC	34734
1534	9496	GCAACUU G UCCACUCC	12450	GGAGUGGA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AGUUUGUC	34735
1578	9452	CCAUGACG G UUCUCCA	12451	UGGAAGAA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CGUCAUGG	34736
1590	9440	UUCACA G CAGCCGG	12452	CCCGGCUG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGAUGGAA	34737
1593	9437	CAUCAGCA G CCGGCGC	12453	GCGCCCGG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGCUGAUG	34738
1598	9432	GAGCCGG G CGCAUCAC	12454	GUGAUGCG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CCGGCUGC	34739
1600	9430	AGCCGGG G CAUCACUU	12455	AAGUGAUG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GCCCGGCU	34740
1619	9411	ACHACUU G UGAGGAUA	12456	UAUCGUCA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AAAGUUUG	34741
1629	9401	GACGAUG G UGAGCUCA	12457	UGAGCUCA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CUAUCGUC	34742
1633	9397	AUAGGUGA G CUCAUUA	12458	UCAUUGAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UCACCUAU	34743
1644	9386	CAUUAUG G CCCUGGCA	12459	UGCCAGGG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CAUCAUUG	34744
1650	9380	UGGCCUG G CAGACGC	12460	GCGUCUUG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CAGGGCCA	34745
1657	9373	GGCAGAC G CCGAUGU	12461	AACAUCGG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GUCUUGCC	34746
1663	9367	ACGCCAU G UCCCCAU	12462	AUGGGAA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AUCGGCGU	34747
1675	9355	CCCAUCA G CAGCUCAA	12463	UUGAGCUG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UUGAUGGG	34748
1678	9352	AUCAAGCA G CUCAAGCA	12464	UGCUTUAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGCUTUAG	34749
1684	9346	CAGCUCAA G CACCUUAG	12465	CUAAGGUG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UUGAGCUG	34750
1692	9338	GCACCUUA G CUUCAUUU	12466	AAUUGAAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UAGGUGGC	34751
1706	9324	UUUUCCAA G UCAGCUCU	12467	AGAGCUGA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UUGGAAAA	34752

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1710	9320	CCAAGUCA	G	CUCUCUG	12468	CACGAGAG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	UGACUUGG	34753
1716	9314	CAGCUCUC	G	UGAUGCGG	12469	CCGCAUCA	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	GAGAGCUG	34754
1721	9309	CUCUGAU	G	CGGUGUC	12470	GACACCCG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	AUCACGAG	34755
1725	9305	UGAUGCGG	G	UGUCCAG	12471	CUGGGACA	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	CCGCAUCA	34756
1727	9303	AUGCGGU	G	UCCAGCC	12472	GGCUGGGA	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	ACCCGCAU	34757
1733	9297	GUGUCCA	G	CCAGCUG	12473	ACAGCUGG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	UGGACAC	34758
1737	9293	CCAGCCA	G	CUGUGUCA	12474	UGACACAG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	UGGCUUGG	34759
1740	9290	AGCCAGCU	G	UGUCAUCA	12475	UGAUGACA	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	AGCUGGCU	34760
1742	9288	CCAGCUGU	G	UCAUCAAGC	12476	GCUGAUGA	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	ACAGCUGG	34761
1749	9281	UGUCAUCA	G	CAUAGAUC	12477	GACUAUG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	UGAUGACA	34762
1760	9270	UAGAUCUU	G	CCCCCAG	12478	CCUGGGGG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	AAGAUCUA	34763
1768	9262	GCCCCAG	G	CGGGGUGC	12479	GCACCCCG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	CUGGGGGC	34764
1773	9257	CAGGCCGG	G	UGCCAACT	12480	AGUUGGCA	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	CCGGCCUG	34765
1775	9255	GGCCGGGU	G	CCAACUUC	12481	GGAUUGG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	ACCCGGCC	34766
1786	9244	AACUUCAC	G	CAGGAUG	12482	ACAUCUCG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	GUGAAGUU	34767
1793	9237	CGAGGAU	G	UAACCCAG	12483	CUGGGUUA	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	AUCCUGCG	34768
1801	9229	GUAAACCA	G	UUUUUGGA	12484	UCCAAAAA	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	UGGGUUAU	34769
1811	9219	UUUUGAG	G	CCCAAGCC	12485	GGCUUGGG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	CUCCAAAA	34770
1817	9213	AGGCCAA	G	CCUCGAC	12486	GUCGAGGG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	UUGGGCCU	34771
1838	9192	CCUCCUGA	G	UUCUUUCU	12487	AGAAAGAA	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	UCAGGAGG	34772
1852	9178	UCUCCNA	G	CCAGUGGU	12488	ACCACUGG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	UUGGAAGA	34773
1856	9174	CCNAGCCA	G	UGGUCUUC	12489	GAGACCA	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	UGGCUUGG	34774
1859	9171	AGCCAGUG	G	UCUUCAUU	12490	AAGAAGA	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	CACUGGCU	34775
1881	9149	AACCCAGA	G	CCUCGAAC	12491	GUUCGAGG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	UCUGGGUU	34776
1898	9132	UCCAGAAA	G	CGAGUCC	12492	GGAGCUCG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	UUUCUGGA	34777
1902	9128	GNAAGCGA	G	CUCGAGC	12493	GCTCGGAG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	UCGCUUUC	34778
1909	9121	AGCUCGGA	G	CCACAUGA	12494	UCAUGUGG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	UCGAGAGU	34779
1926	9104	ACCAAAUG	G	CUCUGCUU	12495	AAGCAGAG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	CAUUUGGU	34780
1931	9099	AUGGCUCU	G	CUUCCCUU	12496	AAGGGAAG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	AGAGCCAU	34781
1941	9089	UUCCCUUG	G	CCUUUCCG	12497	CGGAAAGG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	CAAGGGAA	34782
1960	9070	CUCUCCGG	G	UUUUUUCU	12498	AGRAAAAA	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	CCGGAGAG	34783
1985	9045	CCCAUCAU	G	UUUGAAAU	12499	AUUUACAA	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	AUGAUGGG	34784
1988	9042	AUCAUGU	G	UAAAUUGA	12500	UGCAUUUA	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	AACAUGAU	34785
1994	9036	UUGUAAAU	G	CAAGUGUG	12501	CACACUUG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	AUUUACAA	34786
1998	9032	AAUAGCNA	G	UGUGACAU	12502	AUGUCACA	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	UUUGCAUU	34787
2000	9030	AUGACAGU	G	UGACAUUC	12503	GAUGUCA	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	ACUUGCAU	34788
2014	9016	UUCGCCCG	G	CAGAUGUG	12504	CACAUCUG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	GGGGGAAA	34789
2020	9010	CCGCAGAU	G	UGCCUCGC	12505	GCAGGGCA	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	AUCUGCGG	34790
2022	9008	GCAGAUGU	G	CCUCGGCG	12506	GCCTCAGG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	ACAUCUUC	34791
2027	9003	UGUGCCUC	G	CGCUCUUC	12507	GAGGAGCG	GGAGGAAA	CUCUUCAAGGACAUCGUCGGG	GAGGCACA	34792

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2029	9001	UGCUCGC G CUCUCU	12508	AUGAGGAG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	CGAGGGCA	34793
2070	8960	CUUACAUC G CUUUCUG	12509	CAGAGAAAG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	AGUUGAAG	34794
2079	8951	CUUCUGGC G CGUCCUC	12510	GAGGAGCG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	CAGAGGAG	34795
2081	8949	UCUCUGGC G CUCUCCA	12511	UGGAGGAG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	GCCAGAGA	34796
2098	8932	UUGAUUCU G CUCUCAA	12512	UUGAAGAG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	AGAAUCBA	34797
2112	8918	CAAACAUG G CACCCAA	12513	UUUGGUG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	CAUGUUUG	34798
2121	8909	CACCCAA G CUGCAUUG	12514	CAAUCAG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	UUUGGGUG	34799
2124	8906	CCAAAGCU G CAUUGCUG	12515	CAGCAAUG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	AGCUUUUG	34800
2129	8901	GUUGCAU G CUGUUGAC	12516	GUCAAACAG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	AAUGCAGC	34801
2132	8898	GCAUUGCU G UUGACCUU	12517	AAGGUCAA	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	AGCAAUGC	34802
2162	8868	UCUGGAG G CACAUCU	12518	AGAAUGUG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	UCUCGGAG	34803
2176	8854	UCUGGGAC G UUUUUCU	12519	GAGAAAAA	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	GUCCCGAG	34804
2187	8843	UUUCUCUG G CCAAAAC	12520	GUUUUGG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	CAGAGAAA	34805
2196	8834	CCAAAAC G CCCACAAC	12521	GUUGUGGG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	GUUUUUUG	34806
2207	8823	CACAACCA G UUGGUGGU	12522	ACCACCAA	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	UGGUUUGU	34807
2211	8819	ACCAUGUG G UGGUCUCA	12523	UGAGACCA	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	CAACUGGU	34808
2214	8816	AGUUGGUG G UCUCAUUG	12524	CAAUGAGA	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	CACCAACU	34809
2224	8806	CUCAUUGA G CAGUUAUC	12525	AGUACGUG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	UCAUUGAG	34810
2228	8802	UUGAGCAC G UACUUCAC	12526	GUGAAGUA	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	GUGUCUAA	34811
2245	8785	UCCUUCUG G CGGUUCAG	12527	CUGAACCG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	CAGAAAGG	34812
2248	8782	UUCUGGG G UUCAGGAG	12528	CUCUGAA	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	CGCCAGAA	34813
2256	8774	GUUCAGGA G CUUUCGUG	12529	CACGAAAG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	UCCUGAAC	34814
2262	8768	GAGCUUUC G UGUCCACC	12530	GGUGGACA	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	GAAAGCUC	34815
2264	8766	GCUUUCGU G UCCACCUU	12531	AAGGUGGA	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	ACGAAAGC	34816
2287	8743	GAACACUC G CUGCUGCC	12532	GGCAGCAG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	GAGUGUUC	34817
2290	8740	CACUCGCU G UGCCCCGA	12533	UCGGGCAG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	AGCGAGUG	34818
2293	8737	UCGCUGCU G CCCGAAGG	12534	CCUUCGGG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	AGCAGCGA	34819
2304	8726	CGAAGGGA G UAGUGUCA	12535	UGACACUA	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	UCCCUUUG	34820
2307	8723	AGGGAGUA G UGUCAGUC	12536	GACUGACA	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	UACUCCCU	34821
2309	8721	GGAGUAGU G UCAGUCAU	12537	AUGACUGA	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	ACUACUCC	34822
2313	8717	UAGUGUCA G UCAUGGCC	12538	GGCCAUGA	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	UGACACUA	34823
2319	8711	CAGUCAUG G CCAUGGUG	12539	CACCAUGG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	CAUGACUG	34824
2325	8705	UGGCCAUG G UGGUAAAC	12540	UGUUACCA	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	CAUGGCCA	34825
2328	8702	CCAUGGUG G UAACAUDC	12541	GAAUGUUA	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	CACCAUGG	34826
2337	8693	UAACAUDC G UGAUGGUG	12542	CACCAUCA	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	GAAUGUUA	34827
2343	8687	UCGUGAUG G UGUCCCAU	12543	AUGGGACA	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	CAUCACGA	34828
2345	8685	GUGAUGGU G UCCCAUGG	12544	CCAUGGGA	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	ACCAUCAC	34829
2353	8677	GUCCCAUG G UUUUGAGA	12545	UCUCAAAA	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	CAUGGGAC	34830
2365	8665	UGAGAGGA G CCUGACCA	12546	UGGUCAGG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	UCCUCUCA	34831
2386	8644	AUUGACCA G GAAUCUGG	12547	CCAGUUCG	GGAGGAAACUCCUUAAGGACAUCGUCGCCGG	UGGUCRAU	34832

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2394	8636	GCGAACUG G CGGAGCCU	12548	AGGCUCCG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CAGUUCGC	34833
2399	8631	CUGGCGGA G CUGUGGG	12549	CCCACAGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UCCGCCAG	34834
2403	8627	CGGAGCCU G UGGGCUUC	12550	GAAGCCCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AGGCUCCG	34835
2407	8623	GCCUGUGG G CUUCACAU	12551	AUGUGAAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CCACAGGC	34836
2423	8607	UCAAACU G CCGUGAUA	12552	UAUCACGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AGUUAUGA	34837
2426	8604	UACUCCG G UGAUAGUU	12553	AACTAUCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GGCAGUUA	34838
2432	8598	CGUGAUA G UCCAGGU	12554	ACCUAGAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UAUCACGG	34839
2439	8591	AGUCCAG G UUCUAUUA	12555	AUAUAGAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CUGGAAACU	34840
2450	8580	CUAUAUG G UGGUUCUC	12556	GAGAACCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CCAUAUAG	34841
2453	8577	UAUGGUG G UUCUAUUC	12557	GAUGAGAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CACCCAUA	34842
2462	8568	UUCUCAUC G UGGUGCCA	12558	UGGCACCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GAUGAGAA	34843
2465	8565	UCAUCUG G UGCCACGU	12559	ACUGGGCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CACGAUGA	34844
2467	8563	AUCGUGGU G CCACGUCG	12560	CGACGUGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	ACCACGAU	34845
2472	8558	GUUGCCAC G UGAAACUG	12561	CAGUUCGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GUGGCACC	34846
2480	8550	GUGGAACU G UACUCAGC	12562	CGUGAGUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AGUUCGAC	34847
2488	8542	GUACUCAC G CUGAGUUC	12563	GACUCAGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GUGAGUAC	34848
2494	8536	AGCCCUCA G UGUUCAA	12564	UUGAACGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UCAGGCGU	34849
2497	8533	CCUGAGUC G UUCAUUC	12565	GGAUUGAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GACUCAGG	34850
2507	8523	UCAAUCCU G UUCUUGAU	12566	AUCAAGAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AGGAUUGA	34851
2523	8507	UUUAUCUG G UGUUGAG	12567	CUACAGCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CAGUAAAA	34852
2525	8505	UUACUGGU G UCUAGUU	12568	AACUCAGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	ACCAGUAA	34853
2531	8499	GUGUCUGA G UUGAGCAG	12569	CUGUCUAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UCAGACAC	34854
2536	8494	UGAGUUGA G CAGGGGUU	12570	AACCCUUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UCAAUCUA	34855
2542	8488	GAGCAGG G UUUUCCCA	12571	UGGGAATA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CCCUGCUC	34856
2553	8477	UUCGCCAC G CCUGGUU	12572	AACCAAGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GGUGGAA	34857
2559	8471	CCGCCUG G UCCACAU	12573	AAGUGGAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CAGGCGG	34858
2573	8457	CUUCCCA G UUUACAU	12574	GAUGUAAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UUGGGAAG	34859
2588	8442	UCUUCUC G UAUUGGG	12575	CCCCAAUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GAGGAAGA	34860
2596	8434	GUUUGGG G UCCUUC	12576	GGAAGGGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CCCAUAC	34861
2607	8423	CCUCCAG G UCCUUUU	12577	AAAAAGGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CUGGAAG	34862
2632	8398	UCCUAGGA G CACUUGGC	12578	GCCAGGUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UCCUAGGA	34863
2639	8391	AGCACCUG G CUGGUCAU	12579	AUGACCCAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CAGGUGCU	34864
2643	8387	CCUGGUG G UCAUAUUC	12580	GAUAUGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CAGCCAGG	34865
2659	8371	CAUGAAU G UACACAU	12581	AUGUGUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AUUCAGUG	34866
2669	8361	ACCACAU G CUGAAGC	12582	GCUUCAGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AAUGUGU	34867
2676	8354	UGCCUGAA G CUCGACUC	12583	GAGUGGAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UUCAGGCA	34868
2699	8331	UACAUCUC G UGGUGGA	12584	UCCACGCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GAGAUGUA	34869
2701	8329	CAUCUCU G CGUGGAU	12585	AUUCACG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	ACGAGAU	34870
2703	8327	UCUCGUG G UGGAUUC	12586	GAUUCGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GCACGAGA	34871
2713	8317	GGAAUUC G UGAGAGUG	12587	CACUCUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GGAAUUC	34872

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2719	8311	CGUGAGA G UGGGUUUC	12588	GAAACCCA GGAGGAAACUCCUUAAGGACAUCGUCGCGG UCUCACGG	34873
2723	8307	GAGAGUGG G UUUCUGAC	12589	GUACAGAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG CCACUCUC	34874
2734	8296	UCUGACA G UCCCCC	12590	GGGGGGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG UGGUCAGA	34875
2750	8280	CCAUACG G GUUGGAG	12591	CUCCAACG GGAGGAAACUCCUUAAGGACAUCGUCGCGG CGUAUGG	34876
2752	8278	AUACCGC G UUGGACA	12592	UGTUCCAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG GCCGUUAU	34877
2758	8272	GGUUGA G CAGCUCA	12593	UGAGCUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG UCCAACGC	34878
2761	8269	UUGGACA G CUCAUCU	12594	AGAUGAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG UGUCCAA	34879
2785	8245	GACUUGG G CAUGUAGG	12595	CUACAU GGAGGAAACUCCUUAAGGACAUCGUCGCGG CGAAGUC	34880
2789	8241	UUUGGCAU G UAGGGCA	12596	UGCCCCUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AUGCCGAA	34881
2795	8235	AUGAGGG G CAGGCAC	12597	GUGUCUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG CCCUACAU	34882
2800	8230	GGGCAGA G CACCUCA	12598	UGAAGGUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG UCUGCCC	34883
2810	8220	ACCUAC G CAUAUUC	12599	GAAUUUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG GUGAAGGU	34884
2824	8206	UUCCUUG G CCUCGGU	12600	ACCGAGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG CAAGGAA	34885
2831	8199	GGCCUUG G UGCAGCA	12601	UGGUCGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG CGAGGCGC	34886
2833	8197	CCUCGU G CAGCCAGU	12602	ACUGGUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG ACCGAGG	34887
2836	8194	UCGGUGA G CAGUCCU	12603	AGGAGUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG UGCACCGA	34888
2840	8190	UGGACA G UCCUAAC	12604	GUUGAGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG UGGCUGCA	34889
2868	8162	CCGAAUC G UCCUAUC	12605	GCAUAGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG GAUUCGG	34890
2875	8155	CGUCCAU G CUCUCAA	12606	UUGAAGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG AUAGGACG	34891
2889	8141	CAACCUA G CACUUGAC	12607	GUCAAGUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG UGAGGUUG	34892
2912	8118	UCUCCAU G UCACAAAG	12608	CUUUUGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AUCGGAGA	34893
2925	8105	AAAGGAG G UGUCACAA	12609	UUGGACA GGAGGAAACUCCUUAAGGACAUCGUCGCGG CCUCUUU	34894
2927	8103	AGGAGGU G UCACAAAC	12610	UGUUUGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG ACCUCUU	34895
2944	8086	CUCAGAG G UCUGAGA	12611	UCUACAGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG CUUCUGAG	34896
2948	8082	GAGGUUC G UAGAACAC	12612	GUGUUCUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AGACUUUC	34897
2976	8054	UCUUAUG G UGACAAUG	12613	CAUUGUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG CAUGAAGA	34898
2984	8046	GUGACAU G UUCAUCC	12614	GGAUGGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AUUGUCAC	34899
3001	8029	AUAACUU G CACUAGU	12615	AACUAGU GGAGGAAACUCCUUAAGGACAUCGUCGCGG AAAGUUUAU	34900
3007	8023	UUGCACA G UUGGGGU	12616	AGCCCAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG UAGUGCAA	34901
3013	8017	UAGUUGG G CUCUUAU	12617	AUGAAGAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG CCCAACTUA	34902
3022	8008	CUCUUAU G UCCGGGAC	12618	GUCCGGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AUGAAGAG	34903
3032	7998	CGGGACC G CCUUUGU	12619	ACAAAGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG GGUCCCGG	34904
3039	7991	CGCCUUU G UGUACCCU	12620	AGGUACA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AAAGGGCG	34905
3041	7989	CCUUUUG G UACCCUUC	12621	AGAGGUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG ACAAGGG	34906
3072	7958	UUUUUGG G UUGCCAU	12622	UAUGCAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG CCAAAAA	34907
3075	7955	UUUUUGU G CCAUAUAG	12623	CUAUAUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG AACCCAAA	34908
3083	7947	GCAUAUA G UAACACCA	12624	UGGUUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG UUAUUGGC	34909
3095	7935	CACCAAC G CUCUUC	12625	GGAGAGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG GGUUGGUG	34910
3113	7917	CAUCAA G UCAAUAC	12626	GUGAUGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG CUUGGAUG	34911
3133	7897	UCCGACG G UUGGAGA	12627	UUUCGAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG CGGUCCGA	34912

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3148	7882	AAACUCC G UUCGACCA	12628	UGGUCGAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34913
3157	7873	UUCGACCA G CCAUCUCA	12629	UGAGAUGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34914
3166	7864	CCAUCUCA G UUUUGCUG	12630	CAGCAAAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34915
3171	7859	UUCGUUUU G CUGUGCCC	12631	GGGACAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34916
3174	7856	GUUUUGU G UGCCCCUA	12632	UAGGGCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34917
3176	7854	UUUGUGU G CCCCUGA	12633	UCUAGGGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34918
3193	7837	GACUGGAU G CCUCACG	12634	CUGGAGGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34919
3201	7829	GCCUCCA G UGACAUUG	12635	CAAUGUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34920
3209	7821	GUGACAUU G CCUUCUUU	12636	AAAGRAGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34921
3222	7808	CUUCCUG G CGUGUUUU	12637	AAAACACG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34922
3224	7806	UUCUGGC G UGUUUUGC	12638	GCAAAACA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34923
3226	7804	CUUGGCGU G UUUUGCCG	12639	CGGCAAAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34924
3231	7799	CGUGUUUU G CCGUGAG	12640	CUCAGCGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34925
3234	7796	GUUUUGC G CUGAGCGA	12641	UCGCTUCAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34926
3239	7791	GCGCUGA G CGAUCGAC	12642	GUCGAUCG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34927
3258	7772	CGAUGAUG G CCUCUUUG	12643	CAAGAGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34928
3266	7764	GCCUUUU G CGGUACCU	12644	AGGUACCG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34929
3269	7761	UCUUUGCG G UACCUAGU	12645	ACUAGGUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34930
3276	7754	GUUACCUA G UGAACUCU	12646	AGAGUUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34931
3291	7739	CUUCUUU G UCAUCUGG	12647	CCAGAUUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34932
3299	7731	GUAUCUG G UUGAGUCU	12648	AGACUCUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34933
3304	7726	GUUGUUA G UCUUUUUU	12649	AAGAAGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34934
3330	7700	CUCCACAG G UGCGUCCU	12650	AGGACGCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34935
3332	7698	CCCAAGGU G CGUCCUUU	12651	AAAGGACG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34936
3334	7696	CAAGGUGC G UCCUUUUG	12652	CAAAAGGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34937
3342	7688	GUCCUUUU G CCCCACCU	12653	AGGUGGGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34938
3358	7672	UCUUUUUA G UCCUGGUU	12654	AACACAGGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34939
3364	7666	UAGUCCUG G UUUUUCUA	12655	UGGAAAAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34940
3374	7656	UUUUCCAU G UUCUUUAU	12656	AUAAAGAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34941
3385	7645	CUUUUAUA G UGUCCAUG	12657	CAUGGACA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34942
3387	7643	UUUAUGAU G UCCAUGUU	12658	AACAUGGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34943
3393	7637	GUGUCCAU G UUAUGGAU	12659	AUCCAUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34944
3424	7606	ACCCCCAC G CAUGAUGU	12660	ACAUAUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34945
3431	7599	CGAUGAU G UGGCAGAG	12661	CUCUGCCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34946
3434	7596	AUGAUGU G CAGAUCC	12662	GGACUCUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34947
3439	7591	GUGGCAGA G UCCGAUGG	12663	CCAUGGGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34948
3447	7583	GUCCGAUG G CAGUUGUU	12664	AACAACUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34949
3450	7580	CGAUGGCA G UUGUUGCG	12665	CGCAACAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34950
3453	7577	UGGCAGUU G UUGCGUUC	12666	GAAACGCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34951
3456	7574	CAGUUGUU G CGUCCCAA	12667	UUGGAACG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	34952

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3458	7572	GUUGUUGC G UUCCAAAC	12668	GUUUGGAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GCAACAAC	34953
3470	7560	CAACACAGA G CUUGCUCC	12669	GGAGCAAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UCUGUUUG	34954
3474	7556	CAGAGCUU G CUCAUUC	12670	GAUUGAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AAGCUCUG	34955
3490	7540	CUCCAAA G CGUCACCG	12671	CGGUGACG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UUUUGGAG	34956
3492	7538	CCCAAAGC G UCACCGCU	12672	AGCGGUGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CUUUGGG	34957
3498	7532	GGUCACC G CUGCGGCC	12673	GGCCGCGAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GGUGACGC	34958
3501	7529	UCACCGCU G CGCGCGUG	12674	CACGGCCG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGCGGUGA	34959
3504	7526	CGCUGGCG G CCGUGAUC	12675	GAUCACGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CGCAGCGG	34960
3507	7523	CUGCGGCC G UGAUCAA	12676	UUUGAUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GGCCGCGAG	34961
3522	7508	AAAUCCG G CUUCUCGU	12677	ACGAGAAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CGGAUUUU	34962
3529	7501	GGUUCUC G UACUGUCU	12678	AGACAGUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GAGAAGCC	34963
3534	7496	CUCGUACU G UCUCACA	12679	UGUGAAGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGUACGAG	34964
3548	7482	ACAGACGG G UUCACUAC	12680	GUAGUGAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CCGUCUGU	34965
3561	7469	CUACUACU G CAGUAGA	12681	UUCAGCUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGUAGUAG	34966
3564	7466	CUACUGCA G CUAGAGAC	12682	GUCUCUAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UGCAGUAG	34967
3583	7447	CAGAUAUA G CAUGAUCU	12683	AGAUAUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UGAUCUUG	34968
3592	7438	CAUGAUCU G UCCAAUUC	12684	AAGUUGGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGAUAUG	34969
3607	7423	UUUCUUCU G CAUGAUGG	12685	CCAUAUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGAAGAAA	34970
3616	7414	CAUGAUGG G UGUGGUGC	12686	GCACCACA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CCAUAUG	34971
3618	7412	UGAUGGGU G UGUGGCGC	12687	GCGCACCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG ACCCAUCA	34972
3621	7409	UGGUGUGU G UGCGUCUC	12688	AGAGCGCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CACACCCA	34973
3623	7407	GGUGUGGU G CGUCUUA	12689	UAGAGCG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG ACCACACC	34974
3625	7405	UGUGGUGC G CUUUAUU	12690	AAUJAGAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GCACCACA	34975
3641	7389	UCUGGGAC G UCGUGGCG	12691	GCCACGGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GUCCCAGA	34976
3645	7385	GGACGUCC G UGGCCACG	12692	CGUGGCCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GGACGUCC	34977
3648	7382	CGUCCGUG G CCAGGAUG	12693	CAUCGUGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CACGGACG	34978
3656	7374	GCACGAU G CCAUCCAC	12694	GUGGAUGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AUCGUGGC	34979
3669	7361	CCAUACA G CGUUCUUC	12695	GAAGAAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UGUAGUGG	34980
3671	7359	ACUACAGC G UUCUUCAU	12696	AUGAAGAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GCUUJAGU	34981
3687	7343	UGAUUCCG G CCGCUGUC	12697	GACAGCGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CGGAUACA	34982
3690	7340	UUCGGGCC G CUGUCCGC	12698	GCGGACAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GGCCGGAA	34983
3693	7337	CGCGCGCU G UCCGCCGC	12699	GCGCGGGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGCGGCCG	34984
3697	7333	CGUGUCC G CCGUGGG	12700	CCCAGCGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GGACAGCG	34985
3700	7330	UGUCCGCC G CUGGGCUG	12701	CAGCCAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GGCGGACA	34986
3705	7325	GCCGUGG G CUGAGCGC	12702	GCGUCAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CCAGCGGC	34987
3710	7320	UGGCTUGA G CGCAUUGC	12703	GCAUUGCG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UCAGCCCA	34988
3712	7318	GGUUGAGC G CAUUGCCU	12704	AGGCAUUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GCUCAGCC	34989
3717	7313	AGCGCAU G CUCAGCU	12705	AGCUGAGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AAUGCGCU	34990
3723	7307	UUGCCUCA G CUUGCCAA	12706	UUGGCAAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UGAGGCAA	34991
3727	7303	CUCAGCUU G CCAACCGG	12707	CCGUGUGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AAGCUGAG	34992

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3743	7287	GGAACCAU G UAGGCAUA	12708	UAUGCCUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AUGGUUCC	34993
3747	7283	CCAUGUAG G UAGAGUGG	12709	CCACUAUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CUACAUGG	34994
3752	7278	UAGGCAUA G UGGCAAAA	12710	UUUUGCCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UAUGCCUA	34995
3755	7275	GCAUAGU G CAAAAAG	12711	UUUUUUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CACUAUGC	34996
3766	7264	AAAAAGGA G UGUUGCCG	12712	CGGCAACA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCCUUUUU	34997
3768	7262	AAAGGAGU G UUGCCGCU	12713	AGCGGCAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACUCCUUU	34998
3771	7259	GGAGUGUU G CCGCUGUU	12714	AACAGCGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AACACUCC	34999
3774	7256	GUGUUGCC G CUGUUACC	12715	GGUAAACG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GGCAACAC	35000
3777	7253	UUGCCGCU G UUAACGUA	12716	UACGGUAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AGCGGCAA	35001
3783	7247	CUGUUAAC G UAACGGUG	12717	CACCGUUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GGUAACAG	35002
3789	7241	CCGUAAAC G UGAGGGUG	12718	CACCCUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CGUUAACG	35003
3795	7235	CGUGGAGG G UGACUUGU	12719	ACAAGUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CCUCACCG	35004
3802	7228	GGUGACUU G UCCCCAGC	12720	GCUGGGGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AAGUCACC	35005
3809	7221	UGUCCCCA G CAUCGCGC	12721	GCCGGAUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGGGGACA	35006
3816	7214	AGCAUCCG G CUGCUAGC	12722	GCUAGCAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CGGAUGCU	35007
3819	7211	AUCCGGCU G CUAGCAGG	12723	CCUGCUAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AGCCGGAU	35008
3823	7207	GGCUGCUA G CAGGAGAG	12724	CUCUCCUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UAGCAGCC	35009
3831	7199	GCAGGAGA G CCGACACU	12725	AGUUCGCG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCUCUCCG	35010
3860	7170	AAGGGGAA G CCUCGCGC	12726	GCGCGAGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UUCGCCUU	35011
3865	7165	GAAGCCUC G CGCGAGUG	12727	CACUCGCG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GAGGCUUC	35012
3867	7163	AGCCUCCG G CGAGUGUG	12728	CACACUCG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GCGAGGCU	35013
3871	7159	UGCGCGGA G UGUGAUAU	12729	UAUUCACA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCGCGCGA	35014
3873	7157	GCGCGAGU G UGAUAUGU	12730	ACUAUACA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACUCGCGC	35015
3880	7150	UGUGAAUA G UGCACUUG	12731	CAAGUGCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UAUUCACA	35016
3882	7148	UGAAUAGU G CACUUGCC	12732	GGCAAGUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACUAUACA	35017
3888	7142	GUGCACUU G CCUGAACG	12733	CGUUCAGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AAGUGCAC	35018
3896	7134	GCCUGAAC G UUAUUGA	12734	UCAAUAAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GUUCAGGC	35019
3906	7124	UUAUUGAG G UCAAUGAG	12735	CUCAUUGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CUCAAUAA	35020
3915	7115	UCAAUGAG G UGUUGAUG	12736	CAUCAACA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CUCAUUGA	35021
3917	7113	AAGGAGGU G UUGAUGUA	12737	UACAUTAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACCUCAUU	35022
3923	7107	GUGUUGAU G UAAUCUGA	12738	UCAGAUAU GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AUCAACAC	35023
3933	7097	AAUCUGAC G UGAUCAAA	12739	UUUGAUAU GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GUCAUAUU	35024
3943	7087	GAUCAAAU G CUUUAACA	12740	UGCUAAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AUUUGAUC	35025
3949	7081	AUGCUUUA G CAGUGGAG	12741	CUCCACUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UAAAGCAU	35026
3952	7078	CUUUAACA G UGAGUGUA	12742	UCACUCCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGCUAAAG	35027
3957	7073	GCAGUGGA G UGAGGACC	12743	GGUCCUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCCACUCC	35028
3966	7064	UGAGGACC G CUGUUGUC	12744	GACAACAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GGUCUACA	35029
3969	7061	GGACCGCU G UUGUCACA	12745	UGUGACAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AGCGGUCC	35030
3972	7058	CCGCUUGU G UCACAGCG	12746	CGCUGUGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AACAGCGG	35031
3978	7052	UUGUCACA G CGUACAGU	12747	ACUGUACG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGUGACAA	35032

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3980	7050	GUACAGC G UACAGUGA	12748	UCACUGUA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GCUGUGAC	35033
3985	7045	AGGUACA G UGACCAGG	12749	CUUGGUCA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGUACGCU	35034
3993	7037	GUACACAG G UGUUGCC	12750	GGCAACAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CUGGUCAC	35035
3996	7034	ACCAGGU G UUGCCGCG	12751	GCCGCGAA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AGCCUGGU	35036
3999	7031	AGGUGUU G CCGGCCUC	12752	GAGGCCG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AACAGCCU	35037
4003	7027	UGUUGCG G CCUCAAGU	12753	ACUUGAGG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CGGCAACA	35038
4010	7020	GGCCUAA G UCCAAAG	12754	CUUUGGA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UUGAGGCC	35039
4031	6999	UGUCCAU G CUGAAAU	12755	AAUUCAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AUGGGAGA	35040
4060	6970	AAUUCUU G CCAAAACA	12756	UGUUGGG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AAAGAAUU	35041
4073	6957	AACAAAU G CUUAUGC	12757	GACAUUAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AGUUGUUU	35042
4079	6951	CUGCUAU G UCACUCU	12758	AAAGUGA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AUAAGCAG	35043
4089	6941	CACUCUG G UCUUAUCU	12759	AGAUAGA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CAAGAGUG	35044
4099	6931	CUUAUUA G CCAACCCA	12760	UGGUUGG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UAGAUUAG	35045
4112	6918	CCCAUCG G UUGGCGC	12761	GCAGCCAA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GAGAUGGG	35046
4116	6914	UCUGGUG G CUGCCACU	12762	AGUGGCAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CAACGAGA	35047
4119	6911	CGUUGGU G CCACUGCG	12763	CGCAGUGG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AGCCAACG	35048
4125	6905	CUGCCAU G CGUCACA	12764	UGUGAGCG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AGUGGCAG	35049
4127	6903	GCCACUG G CUCACAAG	12765	CUUGAGAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GCAGUGGC	35050
4137	6893	UCACAAG G UCAUGACA	12766	UGUCAUGA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CCUUGUGA	35051
4161	6869	GGAACAG G CUAGCUGG	12767	CCAGCUAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CGUGUUC	35052
4165	6865	CACGGCUA G CUGGUUGU	12768	ACAAACCAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UAGCCGUG	35053
4169	6861	GUAGGUG G UUGUCUGU	12769	ACAGACAA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CAGCUAGC	35054
4172	6858	AGCUGGU G UCUGUCUG	12770	CAGACAGA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AACCAAGU	35055
4176	6854	GUUGUCU G UCUGCGAA	12771	UUCGCAGA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AGACAACC	35056
4180	6850	GUUGUCU G CGAACGUU	12772	AACGUUCG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AGACAGAC	35057
4186	6844	GUUGAAC G UUGCUUCU	12773	AGAAAGCA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GUUCGCAG	35058
4189	6841	CGAACGU G CUUCUCUG	12774	CAGAGAAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AACGUUCG	35059
4198	6832	CUUCUCU G CUCAGGAA	12775	UUCUGAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CAGAGAAG	35060
4210	6820	AGGAUUA G CACAAUCA	12776	UGAUUGUG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UAAUUCU	35061
4234	6796	AAGGGAGA G CAGCAACA	12777	UGUUGCUG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UCUCCUUU	35062
4237	6793	GGAGAGCA G CAACAUC	12778	GAUUGUUG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGUCUUC	35063
4248	6782	ACAUUCG G CGAUCUC	12779	GAAGAUUG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CGGAUUGU	35064
4257	6773	CGAUCUC G UCCUGGA	12780	UCCAGGAA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GAAGAUUG	35065
4272	6758	GAACUUA G CCAUCCAA	12781	UUGGAUGG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGAAGUUC	35066
4290	6740	AGAAAGAG G UCGGACU	12782	AGUCGCGA	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CUUUUUUC	35067
4293	6737	AAAGGUG G CGACUCC	12783	GGAGUGUG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GACCUUUU	35068
4308	6722	CCAAGACA G GCGCUC	12784	GGGAGGCG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGUCUUGG	35069
4310	6720	AAGACAG G CCUCCAA	12785	UUGGGAGG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GCUGUCUU	35070
4334	6696	UUUCCAU G CCUUCG	12786	CGGAAGGG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AUUGGAAA	35071
4342	6688	GCCUUCG G CUGAUGA	12787	UCAUGCAG	GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GGAGGGC	35072

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4345	6685	CUUCCGCU G CAUGAGGA	12788	UCCUCAUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AGCGGAAG	35073
4371	6659	CUCCCAUG G UCAUCACA	12789	UGUGAUGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CAUGGGAG	35074
4389	6641	UCAUAAG G CAAUCAAG	12790	CUUGAUUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CUUAUUGA	35075
4398	6632	CAUACAAG G CAAUUGUC	12791	GACAAUUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CUUGAUUG	35076
4404	6626	AGGCAUUG G UCUGAAGA	12792	UCUUCAGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AAUUGCCU	35077
4413	6617	UCUGAAGA G CAUCUGGC	12793	GCCGAUGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UCUUCAGA	35078
4420	6610	AGCAUCUG G CAGUUCUU	12794	AGGAACUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CAGAUGCU	35079
4423	6607	AUUGGCCA G UUCUCCA	12795	UGGAGGAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UGCCAGAU	35080
4434	6596	CUUCCAGG G CCAUUCUG	12796	CAGAAUGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CCUGGAGG	35081
4442	6588	GCAUUCU G UGAGCUCU	12797	AGAGCUCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AGAAUGGC	35082
4446	6584	UUCUGUGA G CUCUUCUU	12798	AGGAAGAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UCACAGAA	35083
4464	6566	CUUUCUCU G CAGUGGCC	12799	GGCCACUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AGAGAAAG	35084
4467	6563	UUCUGCA G UGGCCACA	12800	UGUGGCCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UGCAGAGA	35085
4470	6560	CUGCAGUG G CCACAACG	12801	CGUUGUGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CACUGCAG	35086
4478	6552	GCCACAAC G UACAUGGU	12802	ACCAUGUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GUUGUGGC	35087
4485	6545	CGUACAUG G UGUCAAGU	12803	ACUUGACA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CAUGUACG	35088
4487	6543	UACAUGGU G UCAAGUGC	12804	GCACUUGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	ACCAUGUA	35089
4492	6538	GGUGUCA G UGUUCCU	12805	GGGAAGCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UUGACACC	35090
4494	6536	UGUCAAGU G CUUCCCAU	12806	AUGGAAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	ACUUGACA	35091
4503	6527	CUUCCAU G UCUUCCU	12807	GGGAAGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AUGGGAAG	35092
4517	6513	CCCAUGAA G UGCUCAGG	12808	CTUGAGCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UUC AUGGG	35093
4519	6511	CAUGAAGU G CUCAGGCA	12809	UGCCUGAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	ACUUC AUG	35094
4525	6505	GUGCUCAG G CAUCUUUC	12810	GAAGAUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CUGAGCAC	35095
4549	6481	CUCAUGA G CCUAUCU	12811	AGAVAGGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UCAUUGAG	35096
4564	6466	CUGAGAAC G UUUUCCG	12812	CGGAAAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GUUUCUAG	35097
4575	6455	UUCGCGAG G CGAAGUCC	12813	GGGAAUUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CUCGGGAA	35098
4580	6450	GAGGCGAA G UCCUUGAA	12814	UUCAAAGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UUCGCCUC	35099
4590	6440	CCUUGAAC G CCUUUAGU	12815	ACUAAAGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GUUCAAGG	35100
4597	6433	CGCCUUA G UGCCUGGU	12816	ACCAAGCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UAAAGGCG	35101
4599	6431	CCUUUAGU G CCUGGUGA	12817	UCACCAGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	ACUAAAGG	35102
4604	6426	AGUGCCUG G UGAUCCGA	12818	UCGGAUCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CAGGCACU	35103
4613	6417	UGAUCCGA G UACACCCU	12819	AGGGUGUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UCGGAUCA	35104
4623	6407	ACACCCUG G CGUCAAUC	12820	GAUUGACG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CAGGGUGU	35105
4625	6405	ACCUUGC G UCAAUCCA	12821	UGGAUUGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GCCAGGGU	35106
4634	6396	UCAAUCCA G CGCGGCU	12822	AGGCCGCG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UGGAUUGA	35107
4636	6394	AAUCCAGC G CGGCCUCA	12823	UGAGCCCG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GCUGGAU	35108
4639	6391	CCAGCGCG G CCTCAGAA	12824	UUCUGAGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CGCGCUGG	35109
4663	6367	UUCACCAA G CUUCGUGA	12825	UCACGAAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UUGGUGAA	35110
4668	6362	CAAGCUUC G UGAUGACU	12826	AGUCAUCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GAAGCUUG	35111
4685	6345	UCCACUUC G UUGUUGUC	12827	GACACAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GAAGUGGA	35112

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4688	6342	ACUUCGUU G UUGUCUUC	12828	GAAGACAA GGAGGAAACUCCUUAAGGACAUUCUCCGGG AACGAAGU	35113
4691	6339	UCGUUGUU G UCUUCUAA	12829	UUAGAAGA GGAGGAAACUCCUUAAGGACAUUCUCCGGG AACACGA	35114
4704	6326	CUAAAUU G UGUUGUUC	12830	GACAAACA GGAGGAAACUCCUUAAGGACAUUCUCCGGG AAUUUAG	35115
4706	6324	AAAUUUU G UUUGUCCU	12831	AGACAAA GGAGGAAACUCCUUAAGGACAUUCUCCGGG ACZAUUU	35116
4710	6320	UUUGUUU G UCCUAGGA	12832	UCCUAGGA GGAGGAAACUCCUUAAGGACAUUCUCCGGG AACACAA	35117
4727	6303	CAUCAA G CACCACCU	12833	AGGUGGUG GGAGGAAACUCCUUAAGGACAUUCUCCGGG UUUGAUGG	35118
4739	6291	CACCUCG G UCGUGGUA	12834	UACCACGA GGAGGAAACUCCUUAAGGACAUUCUCCGGG CGGAGGUG	35119
4742	6288	CUCCGGUC G UGGUAUGA	12835	UCAUACCA GGAGGAAACUCCUUAAGGACAUUCUCCGGG GACCGGAG	35120
4745	6285	CGGUCGUG G UAUGACAC	12836	GUGUCAUA GGAGGAAACUCCUUAAGGACAUUCUCCGGG CACGACCG	35121
4758	6272	ACACUCCA G CCGCUGCA	12837	UGCAGCGG GGAGGAAACUCCUUAAGGACAUUCUCCGGG UGGAGUGU	35122
4761	6269	CUCCAGCC G CUGCAACC	12838	GGUUGCAG GGAGGAAACUCCUUAAGGACAUUCUCCGGG GGCUGGAG	35123
4764	6266	CAGCCGCU G CAACCUUG	12839	CAAGGUUG GGAGGAAACUCCUUAAGGACAUUCUCCGGG AGCGGCUUG	35124
4772	6258	GCAACCUU G UAAGCCAG	12840	CUUGCUUA GGAGGAAACUCCUUAAGGACAUUCUCCGGG AAGGUUUC	35125
4776	6254	CCUUGUAA G CCAGCCAA	12841	UUGGCUUG GGAGGAAACUCCUUAAGGACAUUCUCCGGG UUACAAGG	35126
4780	6250	GUAGCCA G CCAAACUG	12842	CAGUUUGG GGAGGAAACUCCUUAAGGACAUUCUCCGGG UGGCUUAC	35127
4789	6241	CCAAACUG G CAGAUCUG	12843	CAGAUCUG GGAGGAAACUCCUUAAGGACAUUCUCCGGG CAGUUUGG	35128
4797	6233	GCAGAUCU G CAGUCCUC	12844	GAGGACUG GGAGGAAACUCCUUAAGGACAUUCUCCGGG AGAUCUUC	35129
4800	6230	GAUCUGCA G UCCUCAAC	12845	GUUGAGGA GGAGGAAACUCCUUAAGGACAUUCUCCGGG UGCAGAUC	35130
4810	6220	CTUCAACA G UCCAGAA	12846	UUCUGGAA GGAGGAAACUCCUUAAGGACAUUCUCCGGG UGUUGAGG	35131
4820	6210	UCCAGAA G UUUUUUCU	12847	AGAAAAA GGAGGAAACUCCUUAAGGACAUUCUCCGGG UUUCUGGA	35132
4843	6187	UCCUCUGA G CCGGUUUU	12848	AAUACCGG GGAGGAAACUCCUUAAGGACAUUCUCCGGG UUCAGAGGA	35133
4847	6183	CUAGCCG G UAUUCCCC	12849	GGGAUAUA GGAGGAAACUCCUUAAGGACAUUCUCCGGG CGGCUACG	35134
4863	6167	CAUCCAUG G UAUAUACC	12850	GGUAUAUA GGAGGAAACUCCUUAAGGACAUUCUCCGGG CAUGGAUG	35135
4879	6151	CUUCUCAC G CUCUGGUU	12851	AACCAGAG GGAGGAAACUCCUUAAGGACAUUCUCCGGG GUGAGAAG	35136
4885	6145	ACGUCUG G UUGGUAGA	12852	UCUACCAA GGAGGAAACUCCUUAAGGACAUUCUCCGGG CAGAGCGU	35137
4889	6141	UCUGGUUG G UAGAAUUG	12853	CAAUUCUA GGAGGAAACUCCUUAAGGACAUUCUCCGGG CAACCAGA	35138
4899	6131	AGAAUUGA G CGAUCAGU	12854	ACUGAUCG GGAGGAAACUCCUUAAGGACAUUCUCCGGG UCAAUUCU	35139
4906	6124	AGCGAUA G UCCGUUUG	12855	CAACCGGA GGAGGAAACUCCUUAAGGACAUUCUCCGGG UGAUCGCU	35140
4910	6120	AUCAGUCC G UUUGGCAU	12856	AUGCCAAA GGAGGAAACUCCUUAAGGACAUUCUCCGGG GGACUGAU	35141
4915	6115	UCCGUUUG G CAUGUUGA	12857	UCAACAUU GGAGGAAACUCCUUAAGGACAUUCUCCGGG CAAACGGA	35142
4919	6111	UUUGGCAU G UUGAUUUU	12858	AACAUCAA GGAGGAAACUCCUUAAGGACAUUCUCCGGG AUGCCAAA	35143
4925	6105	AUGUUGAU G UUUGCCAG	12859	CUGGACAA GGAGGAAACUCCUUAAGGACAUUCUCCGGG AUCAACAU	35144
4928	6102	UUGAUGU G UCCAGCAU	12860	AUGCUGGA GGAGGAAACUCCUUAAGGACAUUCUCCGGG AACAUCAA	35145
4933	6097	GUUGUCCA G CADGAUUC	12861	GAUAUCUG GGAGGAAACUCCUUAAGGACAUUCUCCGGG UGGACAAC	35146
4942	6088	CADGAUUC G UGCCUCAG	12862	CUGAGGCA GGAGGAAACUCCUUAAGGACAUUCUCCGGG GAUAUCUG	35147
4944	6086	UGAUUGU G CCUCAGUC	12863	GACUGAGG GGAGGAAACUCCUUAAGGACAUUCUCCGGG ACGAAUCA	35148
4950	6080	GUGCCUCA G UCCRAUGG	12864	CCAUUGGA GGAGGAAACUCCUUAAGGACAUUCUCCGGG UGAGGCAC	35149
4959	6071	UCCAAUGG G CGAAGUUC	12865	GAACUUGG GGAGGAAACUCCUUAAGGACAUUCUCCGGG CCAUUGGA	35150
4964	6066	UGGCGGAA G UUCGAGUC	12866	GACUCGAA GGAGGAAACUCCUUAAGGACAUUCUCCGGG UUCGCCCA	35151
4970	6060	AAGUUGCA G UCGUCUUC	12867	GAAGACGA GGAGGAAACUCCUUAAGGACAUUCUCCGGG UCGAACUU	35152

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4973	6057	UUUGAGUC G UCUUCAUU	12868	AAUGAAGA GGAGGAAACUCCUUCAGGACAUCGUCGCGG GACUCGAA	35153
4983	6047	CUUCAUUC G UUGCCCC	12869	GGGGCACA GGAGGAAACUCCUUCAGGACAUCGUCGCGG GAAUGAAG	35154
4985	6045	UUAUCUGU G UGCCCCC	12870	GGGGGGCA GGAGGAAACUCCUUCAGGACAUCGUCGCGG ACGAUGA	35155
4987	6043	AUUCUGU G CCCCCAU	12871	AUGGGGGG GGAGGAAACUCCUUCAGGACAUCGUCGCGG ACACGAU	35156
5000	6030	CAUAACA G UACUCAUC	12872	GGAGGAAACUCCUUCAGGACAUCGUCGCGG UGUUAUGG	35157
5017	6013	ACCAAUU G CGACGGAU	12873	AUCCGUCG GGAGGAAACUCCUUCAGGACAUCGUCGCGG AAGUUGGU	35158
5038	5992	ACGAUAC G UCCACGUC	12874	GACUGGA GGAGGAAACUCCUUCAGGACAUCGUCGCGG GUAUCGGU	35159
5044	5986	AGUCCAC G UUCUGGG	12875	CCCAAGA GGAGGAAACUCCUUCAGGACAUCGUCGCGG GUGGACGU	35160
5052	5978	GUUCUGG G CGGCACUA	12876	UAGUCCG GGAGGAAACUCCUUCAGGACAUCGUCGCGG CCAGAGAC	35161
5055	5975	UCUUGGG G CACUAGCU	12877	AGCUAGUG GGAGGAAACUCCUUCAGGACAUCGUCGCGG CGCCCCAGA	35162
5061	5969	CGGCACUA G CUGCUGUC	12878	GACAGCAG GGAGGAAACUCCUUCAGGACAUCGUCGCGG UAGUGCCG	35163
5064	5966	CACUAGCU G CUGUCACU	12879	AGUGACAG GGAGGAAACUCCUUCAGGACAUCGUCGCGG AGCUAGUG	35164
5067	5963	UAGCUGCU G UCACUGCA	12880	UGCAGUGA GGAGGAAACUCCUUCAGGACAUCGUCGCGG AGCAGCUA	35165
5073	5957	CUGUCACU G CAGAUGGU	12881	ACCAUUCG GGAGGAAACUCCUUCAGGACAUCGUCGCGG AGUGACAG	35166
5080	5950	UGCAGAU G UUCUCCCA	12882	UGGGAGAA GGAGGAAACUCCUUCAGGACAUCGUCGCGG CAUCUGCA	35167
5112	5918	CUCCUUCU G UUAUGAUG	12883	CAUCAUAA GGAGGAAACUCCUUCAGGACAUCGUCGCGG AGAAGGAG	35168
5121	5909	UUAUGAUG G UUGGUUUC	12884	GAAACCAA GGAGGAAACUCCUUCAGGACAUCGUCGCGG CAUCAUAA	35169
5125	5905	GAUGGUUG G UUUCACAC	12885	GUGUGAAA GGAGGAAACUCCUUCAGGACAUCGUCGCGG CAACCAUC	35170
5141	5889	CUUUCUG G CUGUCAAU	12886	AUUGACAG GGAGGAAACUCCUUCAGGACAUCGUCGCGG CGGAAGAG	35171
5144	5886	UUCUGGU G UCAAUAC	12887	GUGAUUGA GGAGGAAACUCCUUCAGGACAUCGUCGCGG AGCCGGAA	35172
5156	5874	AUCACCU G CUCGCCUU	12888	AAGCGGAG GGAGGAAACUCCUUCAGGACAUCGUCGCGG AGGGUGAU	35173
5160	5870	CCUGGUC G CCUUGAAG	12889	CUUCAAGG GGAGGAAACUCCUUCAGGACAUCGUCGCGG GAGCAGGG	35174
5168	5862	GCCUUGAA G UUAGCCCC	12890	GGGCUUAA GGAGGAAACUCCUUCAGGACAUCGUCGCGG UUCAAGGC	35175
5172	5858	UGAGUUA G CCCCCAUU	12891	AAUGGGGG GGAGGAAACUCCUUCAGGACAUCGUCGCGG UAAUUAUA	35176
5189	5841	UCAGAUU G UCUGUUGU	12892	ACAAACAG GGAGGAAACUCCUUCAGGACAUCGUCGCGG AUAUCUGA	35177
5193	5837	AUAUGUC G UUGUGAUA	12893	UAUCACAA GGAGGAAACUCCUUCAGGACAUCGUCGCGG AGACAUAU	35178
5196	5834	UGUCUGU G UGAUAAUA	12894	UGUUAUCA GGAGGAAACUCCUUCAGGACAUCGUCGCGG AACAGACA	35179
5207	5823	AUAACAAA G UCCCCAUC	12895	GAUUGGGA GGAGGAAACUCCUUCAGGACAUCGUCGCGG UUUGUUUA	35180
5219	5811	CAAUCAUC G UUCUUAUA	12896	UGUAAGAA GGAGGAAACUCCUUCAGGACAUCGUCGCGG GAUGAUUG	35181
5234	5796	CAUUAUG G UACUCUGU	12897	ACGGAGUA GGAGGAAACUCCUUCAGGACAUCGUCGCGG CCAAAUUG	35182
5241	5789	GGUACUCC G UCUCGUAC	12898	GUACGAGA GGAGGAAACUCCUUCAGGACAUCGUCGCGG GGAGUACC	35183
5246	5784	UCCGUCUC G UACGCUU	12899	AAGUCGUA GGAGGAAACUCCUUCAGGACAUCGUCGCGG GAGACGGA	35184
5258	5772	GACUUAUC G UUCAUUG	12900	CAAUUGAA GGAGGAAACUCCUUCAGGACAUCGUCGCGG AGAAAGUC	35185
5283	5747	UCUUAUCA G CACGUUGU	12901	ACAAAGUG GGAGGAAACUCCUUCAGGACAUCGUCGCGG UGGAAGA	35186
5287	5743	UCCAGCAC G UUGUAGGC	12902	GCUUACAA GGAGGAAACUCCUUCAGGACAUCGUCGCGG GUGCUGGA	35187
5290	5740	AGCACGUU G UAGGCAAA	12903	UUUGCCUA GGAGGAAACUCCUUCAGGACAUCGUCGCGG AACGUGCU	35188
5294	5736	CGUUGAG G CAAAGGGC	12904	GCCCUUUG GGAGGAAACUCCUUCAGGACAUCGUCGCGG CUACAACG	35189
5301	5729	GGCAAGG G CAUUCUA	12905	UGAGAUUG GGAGGAAACUCCUUCAGGACAUCGUCGCGG CCUUUGCC	35190
5329	5701	GACACUAG G CACAAACC	12906	GGUUUGUG GGAGGAAACUCCUUCAGGACAUCGUCGCGG CUAGUGUC	35191
5343	5687	ACCAACC G UCUUCCCG	12907	CGGGAAGA GGAGGAAACUCCUUCAGGACAUCGUCGCGG GGUUUGGU	35192

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5352	5678	UCUUCGG G UGAUUCU	12908	AGAAUACA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CGGGAAGA	35193
5354	5676	UUCGCGG G UAUUCUG	12909	ACAGAUA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACCGGGA	35194
5361	5669	UGUAUCU G UGAUCCAU	12910	AUGGAUA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGAAUACA	35195
5372	5658	AUCCAUC G UAUCCAGA	12911	UCUGGAUA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GAUUGGAU	35196
5381	5649	UAUCCAGA G UUCFAGC	12912	GCUUGGA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UCUGGAUA	35197
5388	5642	AGUCCAA G CUCGAUCC	12913	GAUCGAG	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGUGGAUA	35198
5406	5624	GAUCUCA G UCUGUAG	12914	CUUACAGA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGAGAUCU	35199
5410	5620	CCAGUCU G UAGUCGG	12915	CCGACUA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGACUGAG	35200
5414	5616	GUCUGUA G UCGGAUU	12916	AUUUCGA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UUACAGAC	35201
5425	5605	GGAAUUG G UGAUUGG	12917	CCAUAUA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CAAUUUC	35202
5454	5576	GAUCUGA G UGCUGGU	12918	ACCAGCA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UUCAGAU	35203
5456	5574	UCUGAAG G CCUGGUG	12919	CCACCAG	GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACUUCAGA	35204
5461	5569	AGUGCTG G UGGGUGG	12920	CCACCCA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CAGGCACU	35205
5466	5564	CUGGUGG G UGCUGUC	12921	GACAGCA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CCCACCAG	35206
5469	5561	GUGGGUG G CUGUCAUG	12922	CAUGACAG	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CACCCAC	35207
5472	5558	GGUGGGU G UCAUGAAU	12923	AUUAUGA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGCCACC	35208
5484	5546	UGAAUUG G CCGCGCC	12924	GGCGGGG	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AAUAUUA	35209
5487	5543	AUAUUGC G CCGCUC	12925	GGAGCGG	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GGCAUAU	35210
5490	5540	UUGCGCC G CCUCCCU	12926	AGGGAGG	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GGCGGCA	35211
5500	5530	CUCCCUA G CUCGACU	12927	AGGUCGAG	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UAGGGAG	35212
5511	5519	CGACCUU G UGGAUUG	12928	CAUUAUA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AAAGGUCG	35213
5519	5511	GUGGAUU G UAACUCU	12929	AGAGGUA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUUAUCC	35214
5529	5501	AACUCUU G CUGCAUUG	12930	CAUUGCAG	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AAGAGGUU	35215
5532	5498	CUCUUGU G CAUUGCUA	12931	UAGCAUUG	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGCAAGAG	35216
5537	5493	GUUGCAU G CUAGCUGG	12932	CCAGCUAG	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUUGCAGC	35217
5541	5489	CAUUGCUA G CUGGUCG	12933	CGACCCAG	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UAGCAUUG	35218
5546	5484	CUAGCUG G UCGUGAA	12934	UUCACCGA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CCAGCUAG	35219
5550	5480	CUGGUCG G UGAAUUGA	12935	UCAUUUA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CGACCCAG	35220
5559	5471	UGAAUUGA G CCUAUCC	12936	GAUGAGG	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UCAUUUA	35221
5579	5451	ACGAACAG G UUGUAGU	12937	AACUACA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CUGUUCGU	35222
5582	5448	AACAGGU G UAGUUCG	12938	CCGAACUA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AACCUGUU	35223
5585	5445	AGGUUGA G UUCGGCAG	12939	GUGCCGA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UACAACCU	35224
5590	5440	GUAGUUG G CACCCUG	12940	ACAGGUG	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CGAACUAC	35225
5597	5433	GGACCCU G UGAGGAGA	12941	UCUCCUA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGGUGGCC	35226
5611	5419	AGACAUCA G CUGUGGG	12942	CCCACAG	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGAUGUCU	35227
5615	5415	AUCAGCCU G UGGUGAG	12943	CUCACCA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGGUGAU	35228
5619	5411	GCCUGUG G UGAGGUA	12944	UACCCUA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CCACAGGC	35229
5625	5405	GGUGAGG G UAGCAUGA	12945	UCAUGUA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CCUCACCC	35230
5628	5402	UGAGGGUA G CAUGACAC	12946	GUGUCAUG	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UACCCUCA	35231
5665	5365	UCCAUAU G UUCUCUG	12947	CCAGAGAA	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUAUUGGA	35232

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5674	5356	UUCUCUGG G CACUGCGG	12948	CCGCAGUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35233
5679	5351	UGGACACU G CGGAUGUC	12949	GACAUCG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35234
5685	5345	CUGCGGAU G UCUGGUAC	12950	GUACCAGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35235
5690	5340	GAUGUCUG G UACCGGAU	12951	AUCCGGUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35236
5701	5329	CCGGAUGG G CAGUCCUC	12952	GAGGACUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35237
5704	5326	GAUGGCA G UCCUCUCA	12953	UGAGAGGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35238
5713	5317	UCCUCUCA G UGUUCAG	12954	CUGAAGCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35239
5715	5315	CUCUCAGU G CUUCAGCC	12955	GGCUGAAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35240
5721	5309	GUGCUUCA G CCAUCUCA	12956	UGAGAUGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35241
5730	5300	CCAUCUCA G CAGCCACA	12957	UGUGGCUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35242
5733	5297	UCUCAGCA G CCACHACC	12958	GGUUGUGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35243
5745	5285	CAACCCUG G UUGUGUCU	12959	AGCACCAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35244
5749	5281	CCUGGUGU G UGCUAGCA	12960	UGCUGAGCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35245
5751	5279	UGGUGUGU G CUAGCAG	12961	CGUGCUAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35246
5755	5275	UGGUGCUA G CACGGCUG	12962	CAGCCGUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35247
5760	5270	CUAGCAGG G CUGUUCUC	12963	GAGAACAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35248
5763	5267	GCACGGCU G UUCUCAGU	12964	ACUGAGAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35249
5770	5260	UGUUCUCA G UCUUCUGU	12965	ACAGAAGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35250
5777	5253	AGUCUUCU G UUAUUGGC	12966	GCCAUAAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35251
5784	5246	UGUUAUG G CCUCUUUG	12967	CAAAGAGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35252
5800	5230	GAUGAUCU G UGGCAGAA	12968	UUCUGCCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35253
5803	5227	GAUCUGUG G CAGAUUCC	12969	GGAUUCUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35254
5817	5213	UCCUCCUU G UUUUACCG	12970	CGGUAAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35255
5826	5204	UUUACCG G CGCCGGGA	12971	UCCCGCGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35256
5828	5202	UUACCGGC G CCGGGAUG	12972	CAUCCCGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35257
5845	5185	GAGAUCCA G UACAGUGA	12973	UCACUGUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35258
5850	5180	CCAGUACA G UGAUCUGU	12974	ACAGAUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35259
5857	5173	AGUGAUCU G UUUUUUCC	12975	GGAAAAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35260
5869	5161	UUUCUCA G CAUCUCAG	12976	CUGAGAUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35261
5878	5152	CAUCUCAG G UUCGAUUC	12977	GAUUCGAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35262
5889	5141	CGAAUCCG G CUGGGAUT	12978	AAUCCGAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35263
5899	5131	UGGGAUUG G CUCAUCCA	12979	UGGAUGAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35264
5920	5110	UUCACCCU G CCAUAUCG	12980	CGAUAGUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35265
5928	5102	GCACUAUC G CGCUAUG	12981	CAUAAGCG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35266
5930	5100	ACUAUUGC G CUUAUGA	12982	UACAUUAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35267
5936	5094	GCUCUAU G UAUAGACC	12983	GGCUCUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35268
5942	5088	AUGUAUGA G CCGUUGGG	12984	CCCAACGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35269
5945	5085	UAUGAGCC G UUGGGCAU	12985	AUGCCCAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35270
5950	5080	GCCGUUGG G CAUUAUGA	12986	UCAUAUUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35271
5966	5064	ACUCCAUT G CCAUAAAG	12987	CUUAUUGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	35272

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5974	5056	GCCAUAAA G CCCAUCA	12988	UGAUUGGG	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	UUUAUGGC	35273
5990	5040	ACAUCACC G UUUUGUC	12989	GACAAAAA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	GGUGAUGU	35274
5996	5034	CCGUUUU G UCCACUUAU	12990	AUAGUGGA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	AAAAACGG	35275
6007	5023	CACUAUG G UGAGCCUG	12991	CAGGCUCA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	CAAUAGUG	35276
6011	5019	AUGUGUA G CCUGAUGU	12992	ACAUCAAG	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	UCACCAAU	35277
6018	5012	AGCCUGAU G UUCAGUG	12993	CACUGGAA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	AUCAGGCU	35278
6024	5006	AUGUCCA G UGGGGAAG	12994	CUUCCCCA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	UGGAACAU	35279
6032	4998	GUGGGAA G UCCAAAGU	12995	ACUUUGGA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	UUCGCCAC	35280
6039	4991	AGUCCAA G UCACGGCC	12996	GGCCUGUA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	UUUGGACU	35281
6045	4985	AAGUCAG G CCCCAGAU	12997	AAUCGGGG	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	CGUGACUU	35282
6064	4966	UCCUUCAG G UGUUUUGA	12998	UCAAAACA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	CUGAAGGA	35283
6066	4964	CUUCAGGU G UUUUGAAC	12999	GUUCAAAA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	ACCUGAAG	35284
6082	4948	CACCCUG G UUUUGUCU	13000	AGACGAAA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	CAGGGGUG	35285
6087	4943	CUGGUUC G UCUGGACG	13001	CGUCCAGA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	GAAACCAG	35286
6095	4935	GUCUGGAC G UUCUUAAC	13002	GUUAAGAA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	GUCCAGAC	35287
6104	4926	UUCUUAAC G UUCUUGCC	13003	GGCAAGAA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	GUUAAGAA	35288
6110	4920	ACGUUCU G CCAGGUUC	13004	GAACCCUG	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	AGAACCGU	35289
6115	4915	CUUGCCAG G UUCACCA	13005	UGGUGGAA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	CUGGCAAG	35290
6133	4897	AAUCAUCU G CACCUCAU	13006	AUGAGGUG	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	AGAUGAUU	35291
6145	4885	CUCAUCU G CCGGUUCC	13007	GGAACGGG	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	AGGAUGAG	35292
6149	4881	UCCUGCCC G UUCACUUA	13008	AAGUGGAA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	GGGCAGGA	35293
6158	4872	UUCACUUA G UGCUGCA	13009	UUGCAGCA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	AAGUGGAA	35294
6160	4870	CCACUUGU G CUGCAUUA	13010	AAUUGCAG	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	ACAAGUGG	35295
6163	4867	CUUGUGU G CAUJUCC	13011	GGAAAUUG	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	AGCACAAAG	35296
6175	4855	UUUCCAGG G UCCUCUGU	13012	ACGGAGGA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	CCUGGAAA	35297
6182	4848	GGUCCUCC G UAACAAAG	13013	CUUUGUUA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	GGAGGACC	35298
6190	4840	GUACAAA G UCGAUCCU	13014	AGGAUCGA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	UUUUGUAC	35299
6209	4821	UUGACACU G CCCCAGUA	13015	UACUGGGG	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	AGUGUCAA	35300
6215	4815	CUGCCCA G UAUGGGUC	13016	GACCCAUA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	UGGGGCAG	35301
6221	4809	CAGUAUGG G UCCAGGCG	13017	CGCCUGGA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	CCAUAUCU	35302
6227	4803	GGGUCCAG G CGGCCUUC	13018	GAGGGCCG	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	CUGGACCC	35303
6230	4800	UCCAGGCG G CCCUUCU	13019	GGAGAGGG	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	CGCCUGGA	35304
6239	4791	CCCUCUCC G CUCAUCAA	13020	UUGAUGAG	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	GGAGAGGG	35305
6249	4781	UCAUCAA G CGGCUCCU	13021	AGGAGCCG	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	UUUGAUGA	35306
6252	4778	UCAAAGCG G CUCCUUUU	13022	AAAAGGAG	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	CGCUUUUA	35307
6261	4769	CUCCUUUU G UUGUAUGC	13023	GCAUACAA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	AAAAGGAG	35308
6264	4766	CUUUUGUU G UAUGCCAA	13024	UUGGCAUA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	AACAAAAG	35309
6268	4762	UGUUGUAU G CCAAAGGG	13025	CCCUUUGG	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	AUAACAACA	35310
6276	4754	GCCAAAGG G UGUGGAAA	13026	UUUCCACA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	CCUUUGGC	35311
6278	4752	CAAAGGGU G UGGAANAAC	13027	GUUUUCCA	GGAGGAAAACUCCCUUCAAAGGACAUUCGUCCGGG	ACCCUUUG	35312

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6302	4728	ACCAUAC G CCCGCUCC	13028	GGAGCGGG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG GUGAUGGU	35313
6306	4724	UACGCCC G CUCCUGCU	13029	AGCAGGAG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG GGGCGUGA	35314
6312	4718	CGCUCCU G CUUGAUA	13030	UUUAUACG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG AGGAGCGG	35315
6323	4707	UGAUAACU G CCGAGCAG	13031	CUUCUCGG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG AGUUAUCA	35316
6328	4702	ACUGCCGA G CAGCCAC	13032	GUGGGCUG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG UCGGCAGU	35317
6331	4699	GCCGAGCA G CCCACGAG	13033	CUUCUGGG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG UGCUCGGC	35318
6339	4691	GCCCAGCA G UCAUGAUC	13034	GAUCUGA GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG UCGUGGGC	35319
6350	4680	AUGAUCCU G UAGACGCC	13035	GGCUCUA GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG AGGAUCAU	35320
6356	4674	CUGUAGC G CCGUGGU	13036	ACCACCGG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG GUCUACAG	35321
6360	4670	AGACGGC G UGUUCUG	13037	CACGACCA GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG CGGCGUCU	35322
6363	4667	CGCCGGUG G UCGUGUCC	13038	GGACACGA GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG CACCGGCG	35323
6366	4664	CGUGGUG G UGUCCCC	13039	GGGGGACA GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG GACCACCG	35324
6368	4662	GUGGUGU G UCCCCUU	13040	AAGGGGGA GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG ACGACCAC	35325
6380	4650	CCUUUUU G UACUCUU	13041	AAGGAGUA GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG AAAAAGGG	35326
6391	4639	CUCCUUG G UGAGGGAG	13042	CUCCCUCA GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG CAAAGGAG	35327
6399	4631	GUGAGGGA G UGUCCAC	13043	GUGGGACA GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG UCCUCAC	35328
6401	4629	GAGGAGU G UCCACAA	13044	UUGUGGGA GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG ACUCCUC	35329
6413	4617	CACACAC G CCUCUCU	13045	AGAGGAGG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG GUGUUGUG	35330
6426	4604	CUUCUUU G UGUUUGG	13046	CCAAUACA GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG AAAGAGAG	35331
6428	4602	CUUUUGU G UAUUGGAG	13047	CUCCAUA GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG ACAAGAG	35332
6438	4592	AUUGGAGA G UUAUCCAA	13048	UUGGAUAA GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG UCUCCAAU	35333
6463	4567	UACUGAGG G CAAGAUUG	13049	CAUCUUUG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG CCUCAGUA	35334
6471	4559	GCAAGAU G CCAGGGG	13050	CCCCUGG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG AAUCUUGC	35335
6480	4550	CCCAGGG G UGUACGCA	13051	UGCGUACA GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG CCCCUGGG	35336
6482	4548	CAGGGGU G UACGCACU	13052	AGUGCGUA GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG ACCCCUG	35337
6486	4544	GGGUGUAC G CACUAUUC	13053	GAUTAGUG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG GUACACCC	35338
6495	4535	CACUAUC G CGAGACAG	13054	CUUCUCUG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG GAUUAUG	35339
6514	4516	CAUCUCA G CAUCCAU	13055	UAUGGAUG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG UCAGAUG	35340
6532	4498	CUUCCAG G UGCUCUG	13056	CAGGAGCA GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG CUUGGAAG	35341
6534	4496	UCCAAGU G CUCCUGA	13057	UCCAGGAG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG ACCUUGGA	35342
6553	4477	AUUCAGA G CUGGAAGU	13058	ACUCCAG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG UCAUGAAU	35343
6560	4470	AGCUGGA G UUUCCAUC	13059	GAUGGAAA GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG UUCACGU	35344
6577	4453	AUCAUAA G CCGCACAU	13060	AUGUGCGG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG UUGAUGAU	35345
6580	4450	AUCAAGC G CACAUCAA	13061	UUGAUGUG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG GGCUUGAU	35346
6596	4434	ACUCUUC G CUCGAGCC	13062	GGCUCGAG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG GAAAGAU	35347
6602	4428	UCGUCGA G CCUGUAU	13063	AUTACAGG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG UCGAGCGA	35348
6606	4424	UCGAGCU G UAAUUUCU	13064	AGAAAUUA GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG AGGCUUGA	35349
6615	4415	UAAUUUC G CAUCACUU	13065	AAUGAUG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG AGAAAUUA	35350
6635	4395	CAGGAU G UCCGCGGU	13066	ACGGCGGA GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG AUUUCUG	35351
6639	4391	AAAUUCC G CGUUCUC	13067	GAGAACGG GGAGGAAAUCUCCUUCAAGGACAUCGUCCGGG GGACAUUU	35352

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6642	4388	UGUCCGCC G UUCUCUA	13068	UGAGAGAA GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	GGCGGACA	35353
6663	4367	ACUAUCU G UUGAUUUC	13069	GAUAUCAA GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	AGAUUGU	35354
6687	4343	UCACGAA G CAGCAAC	13070	GUUUGCUG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	UUUCGUGA	35355
6690	4340	CQAAGCA G CAAACAUG	13071	CAUGUUUG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	UGCUUUCG	35356
6700	4330	AAACAUG G CCCCAGCA	13072	UCGCGGGG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	UCAUGUUU	35357
6705	4325	UGAGCCCC G CGAUGUC	13073	GACUAUCG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	GGGGCUCA	35358
6711	4319	CCGCGAUA G UCAUUGGA	13074	UCCRAUGA GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	UAUCGCGG	35359
6723	4307	UUGGAUG G CCAUGGAG	13075	CUCCAUGG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	CAUUCCAA	35360
6731	4299	GCAUGGA G UCAUUGUC	13076	GACAUGA GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	UCCAUGGC	35361
6737	4293	GAGUCAU G UCAAGCUC	13077	GAGCUUGA GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	AUUGACUC	35362
6742	4288	AAUGUCA G CUCUGCCA	13078	UGGCAGAG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	UUGACAUU	35363
6747	4283	CAAGUCU G CCAGCCCU	13079	AGGCUUGG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	AGAGCUUG	35364
6751	4279	CUCUGCA G CCGUCCGA	13080	UCGGAGGG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	UGGCAGAG	35365
6765	4265	CGACGAU G CAAACAUU	13081	AAUGUUUG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	CAUCGUUG	35366
6776	4254	AAAUUAG G CCGACAGC	13082	GCUGUCGG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	CUAAUGUU	35367
6783	4247	GGCCGACA G CUGUCAUC	13083	GAUGACAG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	UGUCGGCC	35368
6786	4244	CGACAGCU G UCAUCACU	13084	AGUGAUGA GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	AGCUGUCG	35369
6798	4232	UCACUUA G UUGCGGCG	13085	GCCCGCAA GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	UGAAUGUA	35370
6801	4229	CUUCAGU G CCGGCCAU	13086	AUGGCCCG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	AACUGAAG	35371
6805	4225	AGUUGCG G CCAUCCCG	13087	GCGGAUUG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	CCGCAACU	35372
6812	4218	GGCAUCC G CGUUUACG	13088	CGUUAACG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	GGAUGGCU	35373
6814	4216	CCAUCGG G UUUAACGU	13089	ACCGUAAA GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	GCGGAUGG	35374
6821	4209	CGUUUACG G UUGGGAUC	13090	GAUCCCAA GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	CGUAAACG	35375
6834	4196	GAUCACAU G CAAUCAGU	13091	ACUGAUUG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	AUGUGAUC	35376
6841	4189	UGCAAUCA G UCCAGCAG	13092	CUGCUUGA GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	UGAUUGCA	35377
6846	4184	UCAGUCCA G CAGCAAGG	13093	CCUUGCUU GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	UGGACUGA	35378
6849	4181	GUCACGA G CAAGGAUC	13094	GAUCCUUG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	UGCUGGAC	35379
6863	4167	AUCAUGG G UUGAAAAG	13095	CUUUUCAA GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	CCCAUGAU	35380
6871	4159	GUUGAAA G UCCUGUUG	13096	CAACAGGA GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	UUUUC AAC	35381
6876	4154	AAAGUCCU G UUGAGGCU	13097	AGCCUCAA GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	AGGACUUU	35382
6882	4148	CUGUUGAG G CUAGAGCC	13098	GGCUUAG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	CUCAACAG	35383
6888	4142	AGGCUAGA G CCAAGCAU	13099	AUGCUUUG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	UCUAGCCU	35384
6893	4137	AGAGCCAA G CAUAGCAG	13100	CUGCUAUG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	UUGGCUUC	35385
6898	4132	CAAGCAUA G CAGACUUG	13101	CAAGUCUG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	UAUGCUUG	35386
6906	4124	GCAGACUU G CUCCUUUC	13102	GAAGGAG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	AAGUCUGC	35387
6921	4109	UUTUUUU G CAGUGCA	13103	UGCACUUG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	AAAAAGA	35388
6924	4106	UUUUUGCA G CUGCACUC	13104	GAGUCAG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	UGCAAAAA	35389
6927	4103	UUGCAGCU G CACUCCUC	13105	GAGGAGUG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	AGCUGCAA	35390
6950	4080	CUAUCAA G CUGCCUUA	13106	AUAGGAG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	UUGAUCAG	35391
6953	4077	AUCAAGCU G CCUAUUC	13107	GGAUAGG GGAGGAAACUCCUUCUCAAAGGACAUCGUCGCGG	AGCUUGAU	35392

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6973	4057	CAUCAACA G CAGUAUCC	13108	GGUAUCUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGUUGAUG	35393
6976	4054	CAACAGCA G UAUCUCUG	13109	ACAGGAUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGCUGUUG	35394
6983	4047	AGUAUCCU G UACACAUC	13110	GAUGGUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AGGAUAUC	35395
7001	4029	AGUAUCAA G CAUCUCAG	13111	CUGAGAUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UUGAAUCU	35396
7009	4021	GCAUCUCA G CCGGGUG	13112	CACCCGGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGAGAUGC	35397
7015	4015	CAGCCGG G UGUUAGCA	13113	UGCUAACA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CCGGGUG	35398
7017	4013	GCCGGGU G UUAGCAGG	13114	CCUGCUAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	ACCCGGG	35399
7021	4009	GGUGUUA G CAGGGCUA	13115	UAGCCUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UAAACACC	35400
7026	4004	UAGCAGG G CUAGCAGC	13116	GUUGCUAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CCUGCUAA	35401
7030	4000	CAGGGCUA G CAGCGGA	13117	UUCGCUUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UAGCCUUG	35402
7033	3997	GGCUAGCA G CGGAACAA	13118	UUGUUCG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGCUGACC	35403
7046	3984	ACAACCCAC G UUGAUGU	13119	ACAUCAAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GUGGUUGU	35404
7053	3977	CGUUGAU G UCGUUGUG	13120	CACAACGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AUCAAACG	35405
7056	3974	UGAUGUC G UUGUGAU	13121	AUUCACAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GACAUCAA	35406
7059	3971	AUGUCGUU G UGAUGUU	13122	AACAUAUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AACGACAU	35407
7065	3965	UUGUGAU G UUAUGGU	13123	AGCCAUAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AUUCACAA	35408
7071	3959	AUGUUAUG G CUCUCAGU	13124	ACUGAGAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CAUAACAU	35409
7078	3952	GGCUCUA G UAUAUCC	13125	GGAUUAUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGAGAGCC	35410
7089	3941	UCAUCCAA G CUACCGCC	13126	GGCGGUAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UUGGAUGA	35411
7095	3935	AAGCUAC G CCAGUGAA	13127	UUCACUGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GGUAGCUU	35412
7099	3931	UACCGCA G UGAUUUCA	13128	UGAAUUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGGCGGUA	35413
7129	3901	CUCCAGA G CAGAUUU	13129	AAAUUCUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UCUGGGAG	35414
7139	3891	AGAUUUG G CGGGCAUC	13130	GAUGCCCG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CAAAUUCU	35415
7143	3887	UUUGGCG G CAUCUGA	13131	UCACGAUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CCGCCAAA	35416
7148	3882	CGGCAUC G UGAUAAGC	13132	GCUAUAUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GAUGCCCG	35417
7155	3875	CGUGAUA G CCAUUUGA	13133	UCAAAUGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UUAUCACG	35418
7173	3857	AGAAACA G CCGCCAAC	13134	GUUGGCGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UGUUUUUC	35419
7176	3854	AAACAGC G CCAACAUC	13135	GAUUGUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GGCUGUUU	35420
7193	3837	AACAAAU G UUCUCCUG	13136	CAGGAGAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AUUUUGUU	35421
7202	3828	UUCUCCUG G UUGGUCCA	13137	UGGACCAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CAGGAGAA	35422
7206	3824	CCUGGUU G UCAUCUC	13138	GAGAUGGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CAACCAGG	35423
7215	3815	UCCAUCU G CUUUGAGA	13139	UUCUAAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GAGAUGGA	35424
7230	3800	GAACGAU G CCACCAUA	13140	UAUGGUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AUCGUUUC	35425
7246	3784	AAACACU G UUGUAUCU	13141	AGAUAACA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CAGUGUUU	35426
7249	3781	CACUGGU G UAUCUUGA	13142	UCAAAGUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	AACCAGUG	35427
7260	3770	UCUUGAG G UCGCCAU	13143	CADGGCGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	CUUCAAGA	35428
7263	3767	UGAAGGU G CCAUGAGC	13144	GUCAUGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GACCUUCA	35429
7270	3760	CGCCAUA G CGCCAAGU	13145	ACUUGGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UCAUGGCG	35430
7272	3758	CCAUGAG G CCAAGUGU	13146	ACACUUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	GCUCAUGG	35431
7277	3753	AGCGCAA G UGUACCAC	13147	GUGGUACA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	UUGGGGCU	35432

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7279	3751	CGCCAAAGU G UACCACGU	13148	ACGUGGUA GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	ACUUGGGG	35433
7286	3744	UGUACCAC G UCUCUCC	13149	GGAGGAGA GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	GUGGUACA	35434
7308	3722	UAGAUUCU G CGAAAGCU	13150	AGCUUUCG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	AGAAUCUA	35435
7314	3716	UUGCGAA G CUGCCCC	13151	GGGGGCG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	UUUCGCG	35436
7317	3713	CGAAAGCU G CCCCCACC	13152	GGUGGGGG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	AGCUUUCG	35437
7337	3693	AUGACAUA G CGUAACAC	13153	GUGUUAUG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	UAUGUCAU	35438
7339	3691	GACAUAUA G UAACACAU	13154	AUGUGUUA GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	GCUAUGUC	35439
7350	3680	ACACAUA G UGUAAAGUA	13155	UACUUAUA GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	UGAUGUGU	35440
7352	3678	ACAUCAGU G UAAGUAU	13156	AUUAUAUA GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	ACUGAUGU	35441
7356	3674	CAGUGUAA G UAAUGCCC	13157	GGGCAUUA GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	UUACACUG	35442
7361	3669	UAAGUAU G CCCCCAAA	13158	UUUGGGGG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	AUUAUAUA	35443
7381	3649	CAGGACUA G CAGAGCAA	13159	UUGUCUCG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	UAGUCCUG	35444
7386	3644	CUAGCAGA G CAUUCAGU	13160	ACUGAUG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	UCUGCUAG	35445
7393	3637	AGCAUAUA G UAUAGCUG	13161	CAGCUAUA GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	UGAUGUGU	35446
7398	3632	UCAGUAUA G CUGGCAUG	13162	CAUGCCAG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	UAUAUAUA	35447
7402	3628	UAUAGCUG G CAUGCUGA	13163	UCAGCAUG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	CAGCUAUA	35448
7406	3624	GCUGGCAU G CUGAUCUU	13164	AAGAUCAG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	AUGCCAGC	35449
7416	3614	UGAUCUUG G CUGUCCAC	13165	GUGGACAG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	CAAGAUA	35450
7419	3611	UCUUGGUU G UCCACUUC	13166	GAGGUGGA GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	AGCCAGA	35451
7430	3600	CACUUCU G CGAAGGAC	13167	GUCUUCG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	AAGAGGUG	35452
7446	3584	CUUCUUG G UGGCCAA	13168	CUUGGCA GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	CCAGGAGG	35453
7449	3581	CUUGGUG G CCAAGAAC	13169	GUCUUGG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	CACCCAGG	35454
7469	3561	ACCAGAG G OCCAACUG	13170	CAGUUGG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	CUUCUGGU	35455
7484	3546	UGAAAGG G UCAUAUA	13171	AUGAUUA GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	CCUUUUA	35456
7497	3523	CAUAUAUA G CAUUAUA	13172	UUUAUAUG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	UGAUAUA	35457
7506	3524	CAUAUAUA G CAUUCACU	13173	AGUGAAUG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	UUUAUAUG	35458
7516	3514	AUUCACUU G UGACUGCA	13174	UGCAGUCA GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	AAGUGAAU	35459
7522	3508	UUGUGACU G CACGAGG	13175	CCTUCGUG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	AGUCACAA	35460
7530	3500	GCACGAG G UCUUUUA	13176	UGAAAGA GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	CCUCGUGC	35461
7543	3487	UUCAUAUA G UCUCUGUG	13177	CACAGAGA GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	AUGAUGAA	35462
7549	3481	AUGUCUCU G UGGUCUGA	13178	UCAGACCA GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	AGAGACAU	35463
7552	3478	UCUCUGUG G UCUGAUCU	13179	AGAUAAGA GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	CACAGAGA	35464
7577	3453	UACCAAC G CCGCUGUC	13180	GACAGCG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	UGUUGGUA	35465
7580	3450	CACAGCC G CUGUCAGU	13181	ACUCAGAG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	GGCUGUG	35466
7583	3447	CAGCCGU G UCAGUUG	13182	CAAACTUA GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	AGCGGUG	35467
7587	3443	CGCUGUA G UUUGGUAG	13183	CUACCAA GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	UGACAGCG	35468
7592	3438	UCAGUUG G UAGCGCAG	13184	CUGCGCUA GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	CAAACTUA	35469
7595	3435	GUUUGUA G CGCAGUGG	13185	CCACUGCG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	UACCAAC	35470
7597	3433	UUGGUAG G CAGUGGUG	13186	CACCACTG GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	GCUACCAA	35471
7600	3430	GUAGCGCA G UGGUGGUA	13187	UACCACCA GGAGGAAACUCCCUCAAGGACAUUCGUCCGG	UGCGCUAC	35472

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7603	3427	GGCAGUG G UGUAAAG	13188	CCUACCA GGAGAAACUCCUUAAGGACAUCGUCGGG CACUGGC	35473
7606	3424	CAGUGUG G UAAGGUG	13189	GCACCUA GGAGAAACUCCUUAAGGACAUCGUCGGG CACCACUG	35474
7611	3419	GGUGAAG G UGCAGCUC	13190	GAGUCGA GGAGAAACUCCUUAAGGACAUCGUCGGG CUUACCAC	35475
7613	3417	GGUAGGU G CAGCUCCU	13191	AGGAGUG GGAGAAACUCCUUAAGGACAUCGUCGGG ACCUUAAC	35476
7616	3414	AAGUGCA G CUCCUGCA	13192	UGGAGGAG GGAGAAACUCCUUAAGGACAUCGUCGGG UGCACCUU	35477
7622	3408	CAGUCUU G CAGCACCA	13193	UGGUGUG GGAGAAACUCCUUAAGGACAUCGUCGGG AGGAGCUG	35478
7625	3405	CUCCUGCA G CACCAAUC	13194	GAUUGUG GGAGAAACUCCUUAAGGACAUCGUCGGG UGCAGGAG	35479
7635	3395	ACCAUCU G UUAUCAAC	13195	GUUGAUA GGAGAAACUCCUUAAGGACAUCGUCGGG AGAUUGGU	35480
7649	3381	AACUUUC G CUCUCUGU	13196	ACAGAGAG GGAGAAACUCCUUAAGGACAUCGUCGGG GGAAGUUU	35481
7656	3374	CGCUCUCU G UGGUGGUG	13197	CACCACCA GGAGAAACUCCUUAAGGACAUCGUCGGG AGAGAGCG	35482
7659	3371	UCUCUGUG G UGGUGCGA	13198	UCGCACCA GGAGAAACUCCUUAAGGACAUCGUCGGG CACAGAGA	35483
7662	3368	CUGUGGUG G UGCAGUG	13199	CACUGCA GGAGAAACUCCUUAAGGACAUCGUCGGG CACCACAG	35484
7664	3366	GUGGUGGU G CGAGUGGC	13200	GCCACUCG GGAGAAACUCCUUAAGGACAUCGUCGGG ACCACCAC	35485
7668	3362	UGGUGCGA G UGGCAGGU	13201	ACUUGCCA GGAGAAACUCCUUAAGGACAUCGUCGGG UCGCACCA	35486
7671	3359	UGCGAGUG G CAGGUCCA	13202	UGGACUCG GGAGAAACUCCUUAAGGACAUCGUCGGG CACUCGCA	35487
7675	3355	AGUGGCAG G UCCACGGU	13203	ACCGUGGA GGAGAAACUCCUUAAGGACAUCGUCGGG CUGCCACU	35488
7682	3348	GGUCCAG G UGUCCGCA	13204	UGCGGACA GGAGAAACUCCUUAAGGACAUCGUCGGG CGUGGACC	35489
7684	3346	UCCACGGU G UCCGCAGC	13205	GCUGCGGA GGAGAAACUCCUUAAGGACAUCGUCGGG ACCGUGGA	35490
7688	3342	CGGUGUC G CAGCUCUC	13206	GAGAGCUG GGAGAAACUCCUUAAGGACAUCGUCGGG GGACACCG	35491
7691	3339	UGUCCGCA G CUCUCACU	13207	AGUGAGAG GGAGAAACUCCUUAAGGACAUCGUCGGG UGCGGACA	35492
7704	3326	CACUCAG G UGACCGUA	13208	UACGGUCA GGAGAAACUCCUUAAGGACAUCGUCGGG CCUGAGUG	35493
7710	3320	GGGUGACC G UAGUUCUU	13209	AGGAACUA GGAGAAACUCCUUAAGGACAUCGUCGGG GGUCACCC	35494
7713	3317	UGACCGUA G UUCUGGG	13210	CCAGGAA GGAGAAACUCCUUAAGGACAUCGUCGGG UACGGUCA	35495
7721	3309	GUUCCUGG G CAGUAUUC	13211	GAUUAUC GGAGAAACUCCUUAAGGACAUCGUCGGG CCAGGAAC	35496
7724	3306	CCUGGCGA G UAAUCGAA	13212	UUCGAUUA GGAGAAACUCCUUAAGGACAUCGUCGGG UGCCCAGG	35497
7733	3297	UAAUCGAA G UCAAUUC	13213	GAGAUUGA GGAGAAACUCCUUAAGGACAUCGUCGGG UUCGAUUA	35498
7748	3282	UCUACCG G CCUUCGUC	13214	GACGAAGG GGAGAAACUCCUUAAGGACAUCGUCGGG CGGGUAGA	35499
7754	3276	CGGCCUUC G UCCCAUGG	13215	CCAUGGGA GGAGAAACUCCUUAAGGACAUCGUCGGG GAAGGCCG	35500
7763	3267	UCCCAUGG G CCUGGUU	13216	AACCAGGG GGAGAAACUCCUUAAGGACAUCGUCGGG CCAUGGGA	35501
7769	3261	GGGCCUG G UUUUGUGU	13217	ACACAAA GGAGAAACUCCUUAAGGACAUCGUCGGG CAGGGCCC	35502
7774	3256	CUGGUUUU G UGUUUGU	13218	ACAAGACA GGAGAAACUCCUUAAGGACAUCGUCGGG AAAACCAG	35503
7776	3254	GGUUUUU G UCUUGUAC	13219	GUACAAGA GGAGAAACUCCUUAAGGACAUCGUCGGG ACAAACC	35504
7781	3249	UGUGUUU G UACCCAGG	13220	CCUGGUUA GGAGAAACUCCUUAAGGACAUCGUCGGG AAGACACA	35505
7789	3241	GUACCCAG G UCUCCGAU	13221	AUCGGAGA GGAGAAACUCCUUAAGGACAUCGUCGGG CUGGGUAC	35506
7799	3231	CUCCGAUU G UGAUUGU	13222	AGCAAUCA GGAGAAACUCCUUAAGGACAUCGUCGGG AAUCGGAG	35507
7805	3225	UUGUAUU G CUUCUGG	13223	CCACGAAG GGAGAAACUCCUUAAGGACAUCGUCGGG AAUCACAA	35508
7810	3220	AUUGUUU G UGGUCCG	13224	CGGGACCA GGAGAAACUCCUUAAGGACAUCGUCGGG GAAGCAAU	35509
7813	3217	GCUCUGU G UCCCGCA	13225	UGGCGGGA GGAGAAACUCCUUAAGGACAUCGUCGGG CACGAAGC	35510
7818	3212	GUGGUCCC G CCAGUGUG	13226	CACACUGG GGAGAAACUCCUUAAGGACAUCGUCGGG GGGACCAC	35511
7822	3208	UCCCGCA G UGUGACUG	13227	CAGUCACA GGAGAAACUCCUUAAGGACAUCGUCGGG UGGCGGGA	35512

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7824	3206	CGCCAGU G UGACUGU	13228	ACCAGUCA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	ACUGGCGG	35513
7831	3199	UGUGACUG G UAUUAUCA	13229	UGAUUAUA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	CAGUCACA	35514
7841	3189	AUAUCAA G UCACUCUC	13230	GAGAGUGA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	UUGAUAAU	35515
7862	3168	AUCCCAUC G CCCCACAA	13231	UUGUGGGG	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	GAUGGAUU	35516
7872	3158	CCCACAAG G UAUUGGUC	13232	GACGCAUA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	CUUGUGGG	35517
7876	3154	CAGGUUAU G CGUCUCAG	13233	CUGAGAG	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	AUACCUUG	35518
7878	3152	AGGUAUGC G UCUCAGGC	13234	GCCUGAGA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	GCAUACCU	35519
7885	3145	CGUCUCAG G CCACGUAC	13235	GUACGUGG	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	CUGAGACG	35520
7890	3140	CAGGCCAC G UACAUGAU	13236	AUCAUGUA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	GUGGCCUG	35521
7917	3113	CCAGAAU G CUCUUAUA	13237	UGAAAGGG	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	AGUUCUGG	35522
7927	3103	CCUUAUA G CUUCCAGG	13238	CGUGGAAG	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	UUGAAAAG	35523
7935	3095	GCUUCCAC G UAUCAUUG	13239	CAAUGAUA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	GUGGAAGC	35524
7945	3085	AUCAUUGA G CCUGCUUU	13240	AAAGCAGG	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	UCAUUGAU	35525
7949	3081	UUGAGCCU G CUUUCAAU	13241	AUUGAAAG	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	AGGCUCAA	35526
7970	3060	UAGGACAG G UCACUGUG	13242	CACAGUGA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	CUGUCCUA	35527
7976	3054	AGGUCAU G UGGAUCGC	13243	GCGAUCCA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	AGUGACCU	35528
7983	3047	UGUGAUC G CCAAGUUG	13244	CAACUUGG	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	GAUCCACA	35529
7988	3042	AUCGCCAA G UUGUUCUU	13245	AAGAACAA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	UUGGCCAU	35530
7991	3039	GCCAAUU G UUCUUGAC	13246	GUCAAGAA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	AACUUGGC	35531
8001	3029	UCUUGACA G CGUUAUCA	13247	UGGAACGG	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	UGUCAAGA	35532
8004	3026	UGACAGCC G UUCAUUG	13248	CAUUGGAA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	GGCUGUCA	35533
8021	3009	AUCUUGCA G UCACAUUC	13249	GAUUGUGA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	UCGAAGAU	35534
8031	2999	CACAUUCA G UUGUGUUG	13250	CAACACAA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	UGAUGUGU	35535
8034	2996	AUCAGUU G UGUUGCUC	13251	GAGCAACA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	AACUGAAU	35536
8036	2994	UCAGUUGU G UUGCUCUC	13252	GAGAGCAA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	ACAACUGA	35537
8039	2991	GUUGUGUU G CUCUCUCU	13253	AGAGAGAG	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	AACACAAC	35538
8067	2963	ACAUCGGA G UGCUGGUG	13254	CACCAAGCA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	UCGGAUUG	35539
8069	2961	AUCCGAGU G CUGGUGAG	13255	CUCACCAG	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	ACUCGGAU	35540
8073	2957	GAGUGCUG G UGAGACCA	13256	UGGUCUCA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	CAGCACUC	35541
8105	2925	ACUUCUAA G CUAUUAUA	13257	UGGAUAUG	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	UUAGAAGU	35542
8115	2915	UAUUCCAA G GCGAUUUC	13258	GAUUCGCG	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	UUGGAAUA	35543
8117	2913	UUCCAAGC G CGAUUCUG	13259	CAGAUTC	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	GCUTUGGA	35544
8127	2903	GAUUCUGA G UCGGACAU	13260	AUGUCCGA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	UCAGAAUC	35545
8142	2888	AUUCUUG G UCUCCGGA	13261	UCCGAGA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	CAAGGAAU	35546
8166	2864	CCACAAG G UGUUUGUG	13262	CAACAACA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	CUUUGUGG	35547
8168	2862	ACAAAGGU G UUGUUGGC	13263	GCCAACAA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	ACCUUUGU	35548
8171	2859	AAGGUUUU G UUGGCGAG	13264	CUCGCCAA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	AACACCUU	35549
8175	2855	UGUUGUUG G CGAUUUCU	13265	AGAACUCG	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	CAACAACA	35550
8179	2851	GUUGGCGA G UUCUGGUG	13266	CACCAGAA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	UCGCCAAC	35551
8185	2845	GAGUUCUG G UGCAAAUA	13267	UAUUGCA	GGAGGAAA	CUCUUAAGGACAUCGUCCGGG	CAGAAACUC	35552

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8187	2843	GUUCUGG G CAAUAAA	13268	UUUAUUUG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG ACCAGAAC	35553
8211	2819	UUCCCCAG G CUCUCCAG	13269	CUGGAGG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CUGGGGAA	35554
8219	2811	GCUCUCCA G CCAAUUUC	13270	GAUAUUGG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UGGAAGGC	35555
8238	2792	AUUUUUCC G UGUGGGG	13271	CGCCACCA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GGAUAAU	35556
8241	2789	UUUCCGUG G UGCGGGG	13272	CACGCCA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CACGGGAA	35557
8244	2786	CGUGGGG G CGGUGAGG	13273	CCUACCG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CACCACGG	35558
8247	2783	UGUGGGG G UGAGGCGU	13274	ACGCCUCA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CGCCACCA	35559
8252	2778	GGGUGAG G CGUUUAGG	13275	CCUAAACG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CUCACCGC	35560
8254	2776	GGUGAGG G UUUAGGUG	13276	CACUAAA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GCCUCACC	35561
8260	2770	GGUUUAG G UGCUGACU	13277	AGUCAGCA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CUAAACGC	35562
8262	2768	GUUUAGG G CUGACUUG	13278	CAAGUCAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG ACCUAAAC	35563
8270	2760	GTUGACU G UACAUUCC	13279	GGAAUGUA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AAGUCAGC	35564
8284	2746	UCCUCCU G UUUUCUAA	13280	UUGAGAAA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AGGAGGGA	35565
8306	2724	ACACUAG G UCCACACC	13281	GGUGUGGA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CUUAGUGU	35566
8331	2699	UCAAAGA G UGUUCAGC	13282	GCUGAACA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UCUUUUGA	35567
8333	2697	AAAGAGU G UUCAGCUU	13283	GAGCUGAA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG ACUUUUUU	35568
8338	2692	AGUUGUA G CUGGUCCU	13284	AGGACGAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UGAACACU	35569
8342	2688	UUCAGCUC G UCUUCUAC	13285	GUGAAGGA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GAGCUGAA	35570
8352	2678	CCUUCACU G CUUCCAC	13286	GUGGGAAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AGUGAAGG	35571
8368	2662	CAUUUGAU G CUCCAGUC	13287	GACUGGAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AUCAAUUG	35572
8374	2656	AUGCUCU G UCUGGAAA	13288	UUUCCAGA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UGGAGCAU	35573
8389	2641	AACUGAUC G UAGACCGC	13289	GCUGUUA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GAUCAGUU	35574
8396	2634	CGUAGAC G CACACUCC	13290	GGAGUGUG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GGUCUACG	35575
8415	2615	CCUUAUGA G CUUUCUGA	13291	UCAGAAAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UCAUAAAG	35576
8433	2597	UGAUCUUG G CUAGGCCU	13292	AGGCCUAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CAAGAUA	35577
8438	2592	UUGGCUAG G CCUUGUGG	13293	CCACAAGG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CUAGCCAA	35578
8443	2587	UAGGCCUU G UGCGGUUU	13294	AAACGCCA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AAGGCCUA	35579
8446	2584	GCCUUGUG G CGUUUCAG	13295	CUGAAACG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CACAAGGC	35580
8448	2582	CUUGGGC G UUUACAGG	13296	CCCUGAAA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GCCACAG	35581
8456	2574	GUUUCAGG G UAAUACUU	13297	AAGUAUUA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CCUGAAAC	35582
8465	2565	UAAUACUU G UACCGGUC	13298	GACCGGUA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AAGUAUUA	35583
8471	2559	UUGUACCG G UCCAUCUA	13299	UGGAGGGA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CGGUACAA	35584
8481	2549	CCAUCCAA G CCUCCACA	13300	UGUGGAGG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UUGGADGG	35585
8495	2535	AUCAUAU G UGAUGAA	13301	UUCAUACA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AAUGAUUU	35586
8497	2533	AUAUUGU G UAUGACA	13302	UGUUAUA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG ACAUUGAU	35587
8524	2506	ACAUCUA G CUCUUGCC	13303	GGCAAGAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UGAGAUUU	35588
8530	2500	CAGCUCU G CCGGUGA	13304	UCAGCCGG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AAGAGCUG	35589
8534	2496	UCUUGCCG G CUGAUGUC	13305	GACAUCAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CGGCAAGA	35590
8540	2490	CGGUGAU G UCUAUGGC	13306	GCAUAGA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AUCAGCCG	35591
8547	2483	UGUCUAUG G CACACCCA	13307	UGGUGUG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CAUAGACA	35592

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8556	2474	CACACCCA G UGUCAGCG	13308	CGCUGACA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UGGGUGUG	35593
8558	2472	CACCCAGU G UCAGCGUG	13309	CACGUGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	ACUGGGUG	35594
8562	2468	GUGUGUA G CGUGCAG	13310	CGUGACG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UGACACUG	35595
8564	2466	GUGUGAG G UGACAGU	13311	AACGUGCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GCUGACAC	35596
8566	2464	GUCAGCGU G CACGUA	13312	UGAACGUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	ACGUCGAC	35597
8570	2460	GCUGCAC G UUCACGGA	13313	UCCGUGAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GUGCACGC	35598
8587	2443	GAGAAGA G CAGAACUC	13314	GAGUUCUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UCUUCUC	35599
8604	2426	CUCAACU G CGAGAAC	13315	GUUUCUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AGUUGGAG	35600
8613	2417	CGAGAAC G UGAGAGU	13316	AGCUCUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GUUUCUG	35601
8619	2411	ACUGAGA G CUAGGAC	13317	GUCCAUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UCUCACGU	35602
8637	2393	UAUCACGA G CAUGAUG	13318	CAUCAUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UCGUGADA	35603
8645	2385	GCAUUGU G CCAUCCA	13319	UGGAUGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AUCAAUGC	35604
8664	2366	ACAGGAG G CCCCAGC	13320	GTUGGGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UCUCCUGU	35605
8671	2359	AGCCCCA G CAAUCCU	13321	AAGAUUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UGGGGGGU	35606
8680	2350	CAUCCU G CGUAUCC	13322	GGAUACG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AAGGAUUG	35607
8682	2348	AUCCUUG G UUAUCCAG	13323	CUGGAUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GCAAGGAU	35608
8696	2334	CAGGACU G CUUCCGA	13324	UUCGAGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AUGUCCUG	35609
8707	2323	UCCGAAC G UGAGOGGA	13325	UCCGCUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UGUUCGGA	35610
8711	2319	AACAGUG G CGGAUUG	13326	GCAUCCG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UCACUGUU	35611
8718	2312	AGCGGAU G CUUCCUG	13327	CGGAGGAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AUUCGCGU	35612
8742	2288	GAUGGAC G CCUCCCA	13328	UGGGAAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UGUCCAU	35613
8757	2273	CAUCGAG G UGAACACC	13329	GGUUAUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CUCAGUUG	35614
8783	2247	GAUCCAA G UGCCAAG	13330	GUUGGGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UUUGGAUC	35615
8790	2240	AGUCCCA G CUGUGUCU	13331	AGACACG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UUGGGACU	35616
8793	2237	CCCAAGU G UGUUCCU	13332	AGGAGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AGCUUGGG	35617
8795	2235	CAAGCUGU G UCUCUAG	13333	CUAGGAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	ACAGCUUG	35618
8805	2225	CUCCUAGA G CGGUAUG	13334	ACTAGCC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UCUAGGAG	35619
8808	2222	CUAGAGG G CUAGUCU	13335	GAGACUAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CGCUUAG	35620
8812	2218	AGCGGCUA G UCUCUGG	13336	CGCAGAGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UAGCCGCU	35621
8818	2212	UAGUCUCU G CGUCCUU	13337	AAGGAGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AGAGACUA	35622
8820	2210	GUUCUGG G CUUCCUU	13338	CAAAGGAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GCAGAGAC	35623
8832	2198	CUUUGAG G UGUUUGA	13339	UACACCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CCUCAAAG	35624
8835	2195	UGAGGGUG G UGUUAAAG	13340	CUUUAACA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CACCCUCA	35625
8838	2192	GGUGGUU G UAAAGGCU	13341	AGCCUUUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AACCAACC	35626
8844	2186	UUGUAAG G CUUUGCCA	13342	UGGCAAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CUUUAACA	35627
8849	2181	AAGGCUU G CCAUUGU	13343	AGCAUUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AAAGCCUU	35628
8855	2175	UUGCCAU G UGCUUCC	13344	GGAAGCAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AUUGGCAA	35629
8858	2172	CCRAUGU G CUUCCAGA	13345	UCUGAAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AGCAUUGG	35630
8870	2160	CCAGACU G UGCCAUG	13346	CAUUGGCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AAGUCUGG	35631
8872	2158	AGACUUGU G CCAUUGU	13347	ACCAUUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	ACAAGUCU	35632

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8879	2151	UGCCAAUG G UGAUUGAU	13348	AUCAAUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG CAUUGGCA	35633
8890	2140	AUUGAUCU G UUGUUCUC	13349	GAGAACAA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG AGAUCAAU	35634
8893	2137	GAUCUGUU G UUCUCCUC	13350	GAGGAGAA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG AACAGAU	35635
8903	2127	UUCUCUCU G CCAACAC	13351	GUGGUGG GGAGGAAACUCCCUCAAGGACAUCGUCGCCG AGAGGAGA	35636
8915	2115	ACCAUAU G UAUGAGUC	13352	GACUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG AUAGUGGU	35637
8921	2109	AUGUAUGA G UCUCAAA	13353	UUGGAGA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG UCAUACAU	35638
8932	2098	UCCAAAGG G UGUUCCA	13354	UGGAACCA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG CCUUGGA	35639
8935	2095	AAAGGGUG G UUCAAUU	13355	AAUUGGAA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG CACCCUU	35640
8958	2072	GGACCUUA G CGUUGGC	13356	GGCCAAAG GGAGGAAACUCCCUCAAGGACAUCGUCGCCG UAAAGUCC	35641
8960	2070	ACCUUAGC G UUGGCGU	13357	ACGGCCAA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG GCUAAGGU	35642
8964	2066	UAGCGUUG G CCGUGGC	13358	GGCCACGG GGAGGAAACUCCCUCAAGGACAUCGUCGCCG CAACGCUA	35643
8967	2063	CGUUGGCC G UGGCCACU	13359	AGUGGCCA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG GGCCAACG	35644
8970	2060	UGGCCGUG G CCACUGAA	13360	UUCAGUGG GGAGGAAACUCCCUCAAGGACAUCGUCGCCG CACGGCCA	35645
8987	2043	ACAAAGG G UGACAGU	13361	ACUGUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG CCUUUUGU	35646
8994	2036	GUUGACA G UGACCAU	13362	AUUGGUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG UGUCAACC	35647
9005	2025	ACCAUUCU G CCCACUGG	13363	CCAGUGGG GGAGGAAACUCCCUCAAGGACAUCGUCGCCG AGAUUGGU	35648
9013	2017	GCCACUG G CGUUGGU	13364	ACCUAAGG GGAGGAAACUCCCUCAAGGACAUCGUCGCCG CAGUGGGC	35649
9015	2015	CCACUGGC G UUAGGUG	13365	CGACCUAA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG GCCAGUGG	35650
9020	2010	GGGUUAG G UCGUUCAA	13366	UUGAACGA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG CUAACGCC	35651
9023	2007	GUUAGUC G UUCAUGA	13367	UCAUUGAA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG GACCUAAC	35652
9033	1997	UCAUGAA G CCACUGAC	13368	GUCAGUGG GGAGGAAACUCCCUCAAGGACAUCGUCGCCG UUCAUUGA	35653
9056	1974	GGACUUDU G CAAGGUCC	13369	GGACCUUG GGAGGAAACUCCCUCAAGGACAUCGUCGCCG AAAGUUC	35654
9061	1969	UUUGCAAG G UCCAUCG	13370	CGGAUGGA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG CUUGCAA	35655
9069	1961	GUUCAUC G UGCCAGU	13371	CACUUGCA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG GGAUGGAC	35656
9071	1959	CCAUCGU G CCAGUGUA	13372	UACACUUG GGAGGAAACUCCCUCAAGGACAUCGUCGCCG ACGGAUGG	35657
9075	1955	CGUGCCA G UGUACUGC	13373	GCAGUACA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG UGGCACGG	35658
9077	1953	GUGCCAGU G UACUGCAA	13374	UUGCAGUA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG ACUGGCAC	35659
9082	1948	AGUGUACU G CAAUCCA	13375	UGGAUUG GGAGGAAACUCCCUCAAGGACAUCGUCGCCG AGUACACU	35660
9099	1931	ACACCACA G UGCCUGA	13376	UCACGGCA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG UGUGGUGU	35661
9101	1929	ACCACAGU G CCGUGACC	13377	GGUCACGG GGAGGAAACUCCCUCAAGGACAUCGUCGCCG ACUGUGGU	35662
9104	1926	ACAGUGCC G UGACCUGU	13378	ACAGGUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG GGCACUGU	35663
9111	1919	CGUGACCU G UGUUGCG	13379	CGCAGACA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG AGGUCACG	35664
9113	1917	UGACCUGU G UCUUGCGG	13380	CCCAGACA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG ACAGGUCA	35665
9117	1913	CUUGUCU G CGGAGUC	13381	GACUCCCG GGAGGAAACUCCCUCAAGGACAUCGUCGCCG AGACACAG	35666
9123	1907	CUGCCGGA G UCCCAAGA	13382	UCUUGGGA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG UCCCGCAG	35667
9141	1889	ACUUGAAA G CCUUUGAA	13383	UUCAAAGG GGAGGAAACUCCCUCAAGGACAUCGUCGCCG UUUCAAGU	35668
9155	1875	GAACAGAC G CCAUAGGU	13384	ACCUAUGG GGAGGAAACUCCCUCAAGGACAUCGUCGCCG GUCUGUUC	35669
9162	1868	CGCCAUAG G UGUUCCC	13385	GGGAACAA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG CUAUGGCG	35670
9165	1865	CAUAGGUU G UUCUCCUC	13386	GAAGGGA GGAGGAAACUCCCUCAAGGACAUCGUCGCCG AACCUAUG	35671
9178	1852	CUUCAACU G CAAUUUUU	13387	AAAAUUG GGAGGAAACUCCCUCAAGGACAUCGUCGCCG AGUUGAAG	35672

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9219	1811	GACCCGAC	G	UCAACUUG	13388	CAAGUUGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GUCGGGUC	35673
9231	1799	ACUUGACA	G	UUGUGCUU	13389	AAGCAACA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGUCAAGU	35674
9233	1797	UUGACAGU	G	UUGCUUGA	13390	UCRAGCAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACUGUCA	35675
9236	1794	ACAGUGUU	G	CUUGAAAA	13391	UUUUCAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AACACUGU	35676
9258	1772	CAGGAUUG	G	CUCCAGCC	13392	GGCUGGAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAUUCUUG	35677
9264	1766	UGGCUCCA	G	CCAAAGCU	13393	AGCUUUGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGGAGCCA	35678
9270	1760	CAGCCAAA	G	CUUGAUGC	13394	GCAUCAAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UUUGGCGU	35679
9277	1753	AGCUUGAU	G	CAGAGCUC	13395	GAGCUCUG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUCAAGCU	35680
9282	1748	GAUGCAGA	G	CUCCUCU	13396	AGAGGAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UCUGCAUC	35681
9292	1738	UCCUCUU	G	UGAGCCCA	13397	UGGGCUCA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAGAGGGA	35682
9296	1734	UCUUGUGA	G	CCCAUUGC	13398	GCAUUGGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UCACAAGA	35683
9303	1727	AGCCCAAU	G	CUAUCACA	13399	UGUGAUG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUUGGGCU	35684
9316	1714	CACAGACU	G	CUUCGUGG	13400	CCACGAAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGUCUGUG	35685
9321	1709	ACUGCUUC	G	UGGCGUGU	13401	ACACGCCA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GAAGCAGU	35686
9324	1706	GCUUCGUG	G	CGUGUGGU	13402	ACCACACG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CACGAAGC	35687
9326	1704	UUGUGGCG	G	UGUGGUUG	13403	GAACCA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GCCACGAA	35688
9328	1702	CGUGGCGU	G	UGGUUCCU	13404	AGGAACCA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACGCCACG	35689
9331	1699	GGCGUGUG	G	UCCUCA	13405	UUGAGGAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CACACGCC	35690
9351	1679	CCAUAAC	G	UCUCUCUG	13406	CAGAGAGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GUUAAUGG	35691
9359	1671	GUCUCUCU	G	UCCUCCA	13407	UGGAGGAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGAGAGAC	35692
9372	1658	UCCACACA	G	VACUCCA	13408	UGGAAGUA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGUGUGGA	35693
9381	1649	UACUCCA	G	CACUGCUC	13409	GAGCAGUG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGGAAGUA	35694
9386	1644	CACGACU	G	CUCCAAGG	13410	CCUUGGAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGUGCUGG	35695
9398	1632	CAAGGGAG	G	UUGAGGUC	13411	GACTUCA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUCCCUUG	35696
9404	1626	AGGUUGAG	G	UCCAUGAA	13412	UUCAUGGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUCAACCU	35697
9435	1595	CCAAGAAC	G	UCUUUGUU	13413	AACAAGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GUUCUUGG	35698
9441	1589	AGGUCUUU	G	UCCAACA	13414	UGUUGGAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAAGACGU	35699
9450	1580	UUCCAACA	G	UCAUCACG	13415	CGUGAUGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGUUGGAA	35700
9458	1572	GUCAUCAG	G	UAGUAUGC	13416	GCAUACUA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GUGAUGAC	35701
9461	1569	AUCACGUA	G	UAUGCAUU	13417	AAUGCAUA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UACGUGAU	35702
9465	1565	CGUAGUAU	G	CAUUGGUG	13418	CACCAUUG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUACUACG	35703
9471	1559	AUGCAUUG	G	UGUCAUUC	13419	GAUUGACA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAAUUGCAU	35704
9473	1557	GCAUUGGU	G	UCAAUCCC	13420	GGGAUUGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACCAUUGC	35705
9487	1543	CCUGAAC	G	UGGUUAC	13421	GUGAACCA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GGUCAGGG	35706
9490	1540	UGACCGUG	G	UUCACAGU	13422	ACUGUGAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CACGGUCA	35707
9497	1533	GGUUCACA	G	UCCACUGU	13423	ACAGUGGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGUGAACC	35708
9504	1526	AGUCCACU	G	UCACUCU	13424	AGAGGUGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGUGGACU	35709
9526	1504	UUCUCCAA	G	CUUUAUGU	13425	CACUAAAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UUGGAGAA	35710
9532	1498	AAGCUUA	G	UGUGUAUG	13426	CAUACACA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UAAAGCUU	35711
9534	1496	GCUUUAGU	G	UGUAUGAA	13427	UUCAUACA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACUAAAGC	35712

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9536	1494	UUUAGUGU G UAUAGAAG	13428	CCUUAUA	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	ACACUAAA	35713
9544	1486	UAUAAG G CGCGCAG	13429	CUGCGCG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	CUUAUAAC	35714
9546	1484	UAUAAGG G CGCAGGA	13430	UCCUGCG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	GCCUUCAU	35715
9549	1481	AAGCGCC G CAGGAGU	13431	CACUCCG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	GCGCGCUU	35716
9555	1475	CGCAGGA G UGAUGUG	13432	CAGCAUA	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	UCCUGCGG	35717
9560	1470	GGAGUGAU G CUGAAUCU	13433	AGAUAAG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AUCACUCC	35718
9573	1457	AUCUCCU G CCUGAGUG	13434	CACUAGG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AGGAGAGU	35719
9579	1451	CUGCCUGA G UGGCUCCA	13435	UGGAGCCA	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	UCAGGCGAG	35720
9582	1448	CCUGAGUG G CUCAACC	13436	GGUUGAG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	CACUCAGG	35721
9592	1438	UCCAACCU G UGUGGAGU	13437	ACUCCACA	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AGGUUGGA	35722
9594	1436	CAACCUGU G UGGAGUAG	13438	CUACUCCA	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	ACAGGUUG	35723
9599	1431	UGUGUGGA G UAGUUUCC	13439	GGAAACUA	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	UCCACACA	35724
9602	1428	GUGGAGUA G UUUCCGUG	13440	CACGAAA	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	UACUCCAC	35725
9608	1422	UAGUUCC G UGCGACUC	13441	GAGUCGA	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	GGAACUA	35726
9610	1420	GUUCCGU G CGACUCCA	13442	UGGAGUG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	ACGGAAAC	35727
9621	1409	ACUCCACA G UAGUUGGU	13443	ACCAACUA	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	UGUGGAGU	35728
9624	1406	CCACAGUA G UUGGUCCA	13444	UGGACCAA	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	UACUUGG	35729
9628	1402	AGUAGUG G UCCAUGGA	13445	UCCAUGGA	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	CAACUACU	35730
9645	1385	CAAAAUG G CCACUUCG	13446	CGAAGUG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	CAUUAUUG	35731
9653	1377	GCCACUUC G UACUUGAU	13447	AUCAAGUA	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	GAAGUGGC	35732
9678	1352	UUAAGAU G UUCUCCU	13448	AGGAAGAA	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	CAUCUUUA	35733
9690	1340	UUAAGAU G CCUUGGUA	13449	UACCAAGG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AAUAGGAA	35734
9696	1334	UUGCCUUG G UAGAGCAG	13450	CUGCUUA	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	CAAGGCAA	35735
9701	1329	UUGGUAGA G CAGGCCAA	13451	UUUGCCUG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	UCUACCAA	35736
9705	1325	UAGAGCAG G CAAAUUUG	13452	CAAAUUG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	CUGCUUA	35737
9714	1316	CAAAUUG G CGCAUGUG	13453	CACAUGCG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	CAAAUUG	35738
9716	1314	AAUUGGC G CAUGUGUC	13454	GACACAU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	GCCAAAU	35739
9720	1310	UGGCGCAU G UGUCAUUG	13455	CAUUGACA	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AUGCGCCA	35740
9722	1308	GGCAUGU G UCAUUGCU	13456	AGCAUUGA	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	ACAUGGCG	35741
9728	1302	GUGUCAU G CUUCCUUU	13457	AAAGGAAG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AUUGACAC	35742
9737	1293	CUUCCUUU G CCAAAUAA	13458	UUUUUUG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AAAGGAAG	35743
9749	1281	AAUAUCC G CAGCGUUU	13459	AACGGCUG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	GGAUUAU	35744
9752	1278	AAUCCGCA G CGUUGGCC	13460	GGCAACGG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	UGCGGAU	35745
9755	1275	CGCAGCC G UUGCCCCA	13461	UGGGGCAA	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	GGCUGCGG	35746
9758	1272	CAGCCGUU G CCCCAGCC	13462	GGCUGGGG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AACGGCUG	35747
9764	1266	UUGCCCCA G CCCCUGUC	13463	GACAGGGG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	UGGGGCAA	35748
9770	1260	CAGCCCUU G UCCACCAC	13464	GUGGUGGA	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AGGGGCGG	35749
9784	1246	CACUCCUU G UCUGCACA	13465	UGUGCAGA	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AAGGAGUG	35750
9788	1242	CCUUGUCU G CACACAAA	13466	UUUGUGUG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AGACAAGG	35751
9798	1232	ACACAAA G CUGGGUCA	13467	UGACCCAG	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	UUUUGUGU	35752

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9803	1227	AAAGCUGG G UCAGCAG	13468	CGUGCUGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35753
9807	1223	CUGGUGCA G CACGUUUG	13469	CAAAACUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35754
9811	1219	GUCAGCAC G UUGUCU	13470	AUGACAAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35755
9815	1215	GCAGUUU G UCAUUGUG	13471	CACAAUGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35756
9821	1209	UUGUCAU G UGAGCUUC	13472	GAAGCUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35757
9825	1205	CAUUGUA G CUUUCUCC	13473	GGGAGAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35758
9837	1193	CUCCUUG G UCGGCAC	13474	GUGCCGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35759
9842	1188	AUGGUCG G CACGCAG	13475	GCUGCGU GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35760
9846	1184	UCGGGCAC G CAGCUUUG	13476	CAAGCUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35761
9849	1181	GGCAGCA G CUUUGUG	13477	CACCAAAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35762
9855	1175	CAGCUUG G UGGAGAGA	13478	UCUCUCA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35763
9866	1164	GAGAUUC G CUGACGU	13479	ACCGUCAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35764
9873	1157	CGCUGAC G UAGCCAA	13480	UUUGGCUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35765
9876	1154	UGACGGUA G CCAAUAG	13481	CUAUUGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35766
9884	1146	GCACAAUA G CAAUAACU	13482	AGUUAUUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35767
9893	1137	CAUAACU G CCGACCU	13483	GAGGUCCG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35768
9903	1127	GGACCUU G CAGGUUG	13484	CAACCUUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35769
9908	1122	UCUGCCAG G UUGACCG	13485	GCGGUCAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35770
9915	1115	GGUAGAC G CUUCAA	13486	UAUGGAGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35771
9945	1085	CAUUGAU G UAGGUUG	13487	CAAGCUUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35772
9949	1081	GAUGUAG G CUUGUCU	13488	AGGACAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35773
9953	1077	GUAGGUU G UCUUAGA	13489	UCUAAAGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35774
9969	1061	ACAUGAU G UCACGCAG	13490	CUGCGUGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35775
9974	1056	AUAGUCAC G CAGCUGUC	13491	GACAGCUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35776
9977	1053	GUCACGCA G CUGUCGCC	13492	GGCAGAC GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35777
9980	1050	ACGACGU G UCGCCUUC	13493	GAAGCGGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35778
9983	1047	CAGCUGC G CCUUCGAG	13494	CUCGAAGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35779
10008	1022	CCACCAU G UUGCUCA	13495	UGGAGCAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35780
10011	1019	CCCAUGU G CUCCAGAC	13496	GUCUGGAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35781
10034	996	UCCAAGAA G UCUCUGU	13497	AACAGAGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35782
10040	990	AAGUCUCU G UUGCUCAU	13498	AUGAGCAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35783
10043	987	UCUCUGU G CUCAUUC	13499	GGAAUGAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35784
10055	975	AUCCAGG G CAGUUGAA	13500	UUCAAACU GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35785
10058	972	CCAAGGA G UUGAAGCU	13501	AGTUUCA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35786
10064	966	CAGUUGA G CUGUAGC	13502	GCUUACAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35787
10067	963	UUGAAGCU G UAAGCUGG	13503	CCAGCUUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35788
10071	959	AGCUGUA G CUGGGCC	13504	GGCCCCAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35789
10077	953	AAGTUGG G CCACCAA	13505	UUUGGUGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35790
10087	943	CACCAAA G CAAUAGCA	13506	UGCUAUUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35791
10093	937	AAGCAUA G CACGACAA	13507	UUGUCGUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG	35792

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10114	916	AACUCUCU G CAUGGUGU	13508	ACACCAUG	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AGAGAGUU	35793
10119	911	UCUGCAUG G UGUUGTUC	13509	GAGCAACA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	CAUGCAGA	35794
10121	909	UGCAUGGU G UUGCUCOC	13510	GGAGCAAA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	ACCAUGCA	35795
10124	906	AUGGUGUU G CUCCCAAG	13511	CUUGGGAG	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AACACCAU	35796
10132	898	GCUCACAA G CAUCCAAC	13512	GUUGGAUG	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	UUGGAGAG	35797
10149	881	CHAUGAG G CUGCCACC	13513	GUUGGCAG	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	CGUCAUUG	35798
10152	878	UGAGGGU G CCACACAG	13514	CCUGGUGG	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AGCCGUCA	35799
10161	869	CCACCAG G CAUAUCCA	13515	UGGAUAUG	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	CCUGGUGG	35800
10172	858	UAUCCAG G UUCUCAAA	13516	UUGAGGAA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	CCUGGAUA	35801
10194	836	AUGAUUCU G UUUUUAAC	13517	GUUAAAAC	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AGAAUCAU	35802
10212	818	AAUACCUU G UGGCCUUG	13518	CAAGGCCA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AAGGUUUA	35803
10215	815	ACCUUGU G CCUUGGUG	13519	CACCAAGG	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	CACAAGGU	35804
10221	809	UGGCCUUG G UGCUGUCC	13520	GGACAGCA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	CAAGGCCA	35805
10223	807	GCCUUGGU G CUGUCCAU	13521	AUGACACG	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	ACCAAGGC	35806
10226	804	UUGUGGU G UCCAUCCA	13522	UGGAUGGA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AGCACCAA	35807
10236	794	CCAUCCAA G CCCCUCUC	13523	GAAGGGGG	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	UUGGAUUG	35808
10247	783	CCUUCUU G UUCGCUAG	13524	CUAGCGAA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AAGAAGGG	35809
10251	779	UCUUGUUC G CUAGAGUG	13525	CACUCUAG	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	GAACAAGA	35810
10257	773	UGGCUAGA G UGUUUUCU	13526	AGAAAGCA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	UCUAGCGA	35811
10259	771	GUAGAGU G CUUUCUCC	13527	GGAGAAAG	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	ACUCUAGC	35812
10268	762	CUUUCUC G UGUGUCUG	13528	CAGACACA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	GGAGAAAG	35813
10270	760	UUCUCGU G UGUCUGCA	13529	UGCAGACA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	ACGGAGAA	35814
10272	758	CUCCGGU G UCUGCACU	13530	AGUGCAGA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	ACACGGAG	35815
10276	754	GUUGUCU G CACUGUCA	13531	UGACAGUG	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AGACACAC	35816
10281	749	UCUGGCU G UCAGUGAC	13532	GUCACTUGA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AGUGCAGA	35817
10285	745	CACUGUCA G UGACCUCC	13533	GGAGGUCA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	UGACAGUG	35818
10298	732	CUCCGACU G CGUCUUGA	13534	UCAAGACG	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AGUCGGAG	35819
10300	730	CCGACUCC G UCUGAGU	13535	ACUCAAGA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	GCAGUCGG	35820
10307	723	CGUCUUGA G UGGCGUGU	13536	ACACGCCA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	UCAAGACG	35821
10310	720	CUUGAGUG G CGUGUCUU	13537	AAGACACG	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	CACUCAAG	35822
10312	718	UGAGUGGC G UGUCUUGG	13538	CCAAGACA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	GCCACUCA	35823
10314	716	AGUGGCGU G UCUGGUG	13539	CACCAAGA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	ACGCCACU	35824
10320	710	GUUGUUG G UGCAUCUU	13540	AAGAUGCA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	CAAGACAC	35825
10322	708	GUUCUUG G CAUCUUC	13541	GGAGAUG	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	ACCAAGAC	35826
10340	690	UACCUAC G UAGACUCC	13542	GCAGUCUA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	GUCAGGUA	35827
10347	683	CGUAGACU G CUGACUUU	13543	AAAGUCAG	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AGUCUACG	35828
10356	674	CUGACUUU G UGCACCAA	13544	UUGUGUCA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AAAGUCAG	35829
10358	672	GACUUUGU G CACCAACA	13545	UGUUUGUG	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	ACAAAGUC	35830
10367	663	CACCAACA G UGUAUGUC	13546	GACAUCGA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	UGUUGGUG	35831
10373	657	CAGUCGAU G UCUUCUGG	13547	CCAGAAGA	GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG	AUCGACUG	35832

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10392	638	CAUUAACCA G CCGACAGC	13548	GCUGUCGG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG UGGUAAUG	35833
10399	631	AGCCGACA G CACUGGGC	13549	GCCCAGUG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG UGUCCGGCU	35834
10406	624	AGCACUGG G CAUUCAU	13550	UAUGAAUG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG CCAGUGCU	35835
10416	614	AUUCAUAA G UGAUAGUA	13551	UACUAUCA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG UUAUGAAU	35836
10422	608	AAGUGAUA G UAUCAUCG	13552	CGAUAUA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG UUAACAUU	35837
10430	600	GUACAUAC G CACAUGUA	13553	UACAUGUG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG GAUGAUAC	35838
10436	594	UUGCAUAU G UAUCCAC	13554	GUGGGAUA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG AUGUGCGA	35839
10452	578	CAUCCAUU G CUCUGACA	13555	UGUCAGAG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG AAUGGAUG	35840
10463	567	CUGACAAU G CAUAGGUU	13556	AACCUAUG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG AUUGUCAG	35841
10469	561	AUGCAUAG G UUCUUUCC	13557	GGAAAGAA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG CUUAU AU	35842
10479	551	UCUUUCCA G CAGCUGUU	13558	AACAGCUG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG UGGAAUAA	35843
10482	548	UUCCAGCA G CUGUUGGA	13559	UCCAACAG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG UGCUGGAA	35844
10485	545	CAGCAGU G UUGGAUUC	13560	GAUUCCAA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG AGCUGCUG	35845
10494	536	UUGGAUUC G UGAUGACA	13561	UGUCAUCA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG GAUUCCAA	35846
10506	524	UGACAUCU G UGACGUCA	13562	UGACGUCA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG AGAUGUCA	35847
10511	519	UCUGUAC G UCAGUAGC	13563	GCUACUGA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG GUACAGCA	35848
10515	515	UGACGUCA G UAGCAUUU	13564	AAAUUCTA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG UGACGUCA	35849
10518	512	CGUCAGUA G CAUUUACC	13565	GGUAAAUU GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG UACUGACG	35850
10527	503	CAUUUACC G UCAUCAUC	13566	GAUGAUGA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG GGUAAAUU	35851
10550	480	CCUUGAA G UUAGAGAG	13567	CUCUCUAA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG UUCRAAGG	35852
10560	470	UAGAGAGG G UACUCUCU	13568	AGCAGUUA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG CCUCUCUA	35853
10566	464	GGUUAACU G CUCCUACG	13569	CQUAGGAG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG AGUUAACC	35854
10574	456	GCUCUAC G CUGGCGAU	13570	AUCGCCAG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG GUAGGAGC	35855
10578	452	CUACGUG G CGAUCAGG	13571	CCUGAUCG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG CAGCGUAG	35856
10586	444	CGAUCAG G CCAUUCAU	13572	AUGAUUGG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG CUGAUCGC	35857
10599	431	UCAUGACU G CAAUUCG	13573	CGGAUUTG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG AGUCAUGA	35858
10608	422	CAAUUCG G UCUUUCU	13574	AGGAAAGA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG CGGAUUTG	35859
10630	400	UUUCUUU G UUUUGAGC	13575	GUCUAAA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG AAAAGAAA	35860
10637	393	UGUUUGA G CUCCGCCG	13576	CGCGGAG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG UCAAAACA	35861
10642	388	UGAGCUCC G CCGAUUGA	13577	UCAAUCCG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG GGAGCTCA	35862
10653	377	GAUUGAUA G CACUGGUC	13578	GACCAGUG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG UAUCAUUC	35863
10659	371	UAGCACUG G UCAAGGUC	13579	GACCUUGA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG CAGUGCUA	35864
10665	365	UGGUCUAG G UCCCUAGU	13580	ACTUAGGA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG CUUAGCCA	35865
10672	358	GGUCCUUA G UUCUUUCU	13581	AGAAGGAA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG UUGGAGCC	35866
10694	336	CAGAAG G UGUUUCAU	13582	AUGAAACA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG CUUCUGAG	35867
10696	334	CAGAAGU G UUUCAUCG	13583	CGAUGAAA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG ACCUUCUG	35868
10704	326	GUUUCUUC G CUGUUUGU	13584	ACAAACAG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG GAUGAAAC	35869
10707	323	UCAUCGU G UUGUUUUG	13585	CAAAACAA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG AGCGAUGA	35870
10711	319	CGCUGUUU G UUUUUUCA	13586	UGAAACAA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG AAACAGCG	35871
10715	315	GUUUGUUU G UUCACACC	13587	GGUGUGAA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG AAACAAC	35872

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10738	292	UGAUCCA	G	CACUGCUC	13598	GAGCAGUG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGGAUCGA	35873
10743	287	CCAGCACU	G	CUCGGGUC	13599	GACCCGAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGUGCUGG	35874
10749	281	CUGCUCGG	G	UCGGAGCA	13590	UGCUCGGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CCGAGCAG	35875
10755	275	GGGUCGGA	G	CAAUUGCU	13591	AGCAAUUG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UCCGACCC	35876
10761	269	GAGCAUUG	G	CUGUGAAC	13592	GUUCACAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAUUGCUC	35877
10764	266	CAUUGCUU	G	UGAACCUUG	13593	CAGGUUCA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGCAAUUG	35878
10779	251	UGAAGAAC	G	CCAAGAGA	13594	UCUCUUGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GUUCUUCA	35879
10788	242	CCAAGAGA	G	CCAACACA	13595	UGUGUUGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UCUCUUGG	35880
10801	229	CACAAUUC	G	UAUUGGCC	13596	GGCCAAUA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GAUUUGUG	35881
10807	223	UCGUUUGG	G	CCCCUUGC	13597	GCAAGGGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAAUACGA	35882
10814	216	GGCCCCUU	G	CGGUCGAU	13598	AUCACACG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAGGGGCC	35883
10817	213	CCCUUGCC	G	UCGAUCAG	13599	CUGAUCGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GGCAAGGG	35884
10826	204	UGGAUCAG	G	CUCACACU	13600	AUGUUGAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUGAUCGA	35885
10836	194	UCAACAU	G	CCCUUUC	13601	GAAGAGGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UAUUUGGA	35886
10846	184	CCUCUCCA	G	UCCAAUCA	13602	UGAUUGGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGAAGAGG	35887
10865	165	GACAACAC	G	CGGGGCAU	13603	AUGCCCGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GUGUUGUC	35888
10870	160	CACGCGGG	G	CAUUCGCG	13604	GCGGAAUG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CCCGCGUG	35889
10877	153	GGCAUUCG	G	CGUUUUG	13605	CUAAACCG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GGAAUGCC	35890
10879	151	CAUCCCGG	G	UUUUAGCA	13606	UGCUAAAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GCGGAUUG	35891
10885	145	GGGUUUA	G	CAUAUUGA	13607	UCAUAUUG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UAAAAACG	35892
10896	134	UAUUGACA	G	CCCGGCUU	13608	GAGCCGGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGUCAUAU	35893
10901	129	ACAGCCCG	G	CUCUUGCC	13609	GGCAAGAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CGGGCUGU	35894
10907	123	CGGCUCUU	G	CCGGGCCC	13610	GGGCCCGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAGAGCCG	35895
10912	118	CUUGCCGG	G	CCCUCCUG	13611	CAGAGAGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CCGGCAAG	35896
10921	109	CCCUCCUG	G	UUUCUUG	13612	CUAAGAAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAGGAGGG	35897
10944	86	AGAUUCUG	G	UGCUAAGA	13613	UCUUAAGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GAAGAUCU	35898
10946	84	AUCUUCGU	G	CUAAGAAA	13614	UUUCUUG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACGAAGAU	35899
10957	73	AAGAAACA	G	CUCGCACU	13615	AGUGCGAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGUUUCUU	35900
10961	69	AACAGCUC	G	CACUGUGU	13616	ACACAGUG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GAGCUGUU	35901
10966	64	CUCGCACU	G	UGUUAUUU	13617	AAUUAACA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGUGCGAG	35902
10968	62	CGCACUGU	G	UUAUUUGU	13618	ACAAUUA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACAGUGCG	35903
10975	55	UGUUAUUU	G	UUUUUAUU	13619	AUUAACAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAUUAACA	35904
10978	52	UAUUUUUU	G	UUUAUUUU	13620	AGGAUUUA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AACAAUUA	35905
11002	28	UAUUAUA	G	UUUUGUCAG	13621	CUGACAAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UUAGUAGU	35906
11006	24	CUAAGUUU	G	UCAGCUCA	13622	UGAGCUGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAACUUG	35907
11010	20	GUUUGUCA	G	CUCACACA	13623	UGUGUGAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGACAAAC	35908
11020	10	UCACACAG	G	CGAACUAC	13624	GUAGUUCG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUGUGUGA	35909
37	10993	CCAUGUC	G	GGGCACUG	14175	CAGUGCGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GACAAUGG	35910
54	10976	UGCCGUGU	G	GUUGGUGU	14176	CAACACAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACACGGCA	35911
58	10972	GUUGGUGU	G	GUUGUGCA	14177	UGCACAAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGCCACAC	35912

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67	10963	GUUGUGCA G AGCAGAAG	14178	CUUCUGCU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	UGCAACAAC	35913
72	10958	GCAGAGCA G AAGAUCUC	14179	GAGAUCUU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	UGCUCUGC	35914
75	10955	GAGCAGAA G AUCUCCUA	14180	UAGAGAU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	UUCUGCUC	35915
94	10936	CUAUCCA G GUGUCAU	14181	AUUGACAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	UGGGAUAG	35916
118	10912	UUUGUUG G GUGUUUG	14182	CAAAACAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	ACAAACAA	35917
128	10902	UGUUUGU G GCACGGGG	14183	CCCCGUGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	ACAAACAA	35918
133	10897	UGUGGCAC G GGGUCUCC	14184	GGAGACCC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	GUGCCACA	35919
134	10896	GUGGCACG G GGUUCUCA	14185	UGGAGACC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CGUGCCAC	35920
135	10895	UGGCACGG G GUCUCCAC	14186	GUGGAGAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CCGUGCCA	35921
164	10866	CUUCCCU G ACUACAG	14187	CUUGAGGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	AGGGGAAG	35922
182	10848	UUCAGUCA G GUGGGGC	14188	GGCCGAGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	UGACUGAA	35923
186	10844	GUCAGGCU G GGCCGUGC	14189	GCACGGCC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	AGCCUGAC	35924
187	10843	UCAGGCU G GCCGUGCA	14190	UGCACGGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CAGCTUGA	35925
207	10823	UAAACCG G GGGUCUCC	14191	GGAGACCC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	GCGGUUUA	35926
208	10822	AAACCGG G GGUUCUCU	14192	AGGAGACC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	GCGGGUUU	35927
209	10821	AACCGGG G GUCUCCUC	14193	GAGGAGAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CCGCGGUU	35928
240	10790	UUGGCCU G GUUACAC	14194	GUGUUUAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	AGGGCGAA	35929
256	10774	CCAUUAC G GGGCUAGG	14195	CTUAGCCC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	GGUAAUGG	35930
257	10773	CAUUAAC G GGUUAGGG	14196	CCUAGACC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CGGUAUUG	35931
258	10772	AUUAACCG G GCUAGGGC	14197	GGCCUAGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CCGGUUAA	35932
263	10767	CGGGGCUA G GGCCGGGU	14198	ACGCGGCC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	UAGCCCGG	35933
264	10766	GGGGCTAG G GCGCGGUG	14199	CACGGGGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CUAGCCCC	35934
272	10758	GCGCGGUG G GGGCGUUG	14200	CAACGCCC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	ACGCGGCC	35935
273	10757	GCGCGGUG G GCGGUUGG	14201	CCAAGCCC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CACGCGGC	35936
274	10756	CCGCGUGG G GCGUUGGU	14202	ACCAAGCC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CCACGCGG	35937
280	10750	GGGGGCUU G GUUUGCCU	14203	AGGCAAAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	AACGCCCC	35938
308	10722	GUCCUCCU G GGGCACA	14204	UAGUGCCC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	AGGAGGAC	35939
309	10721	UCCUCCUG G GGCACUAU	14205	AUAGUGCC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CAGGAGGA	35940
310	10720	CUUCCUGG G GCACUAUC	14206	GAUAGUGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CCAGGAGG	35941
322	10708	CUAUCGCA G ACUGCACU	14207	AGUGCAGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	UGCGAUAG	35942
338	10692	UCUCCGCA G AGUAGCAC	14208	GUGCUACU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	UGCGGAGA	35943
357	10673	CGUAGCGU G GUUGACA	14209	UGUCAGAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	ACGCUACG	35944
362	10668	CGUGGUCU G ACAUUGGG	14210	CCCAUUGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	AGACCCACG	35945
368	10662	CUGACAUU G GGUUUUGA	14211	UCAAAGCC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	AAUUCUAG	35946
369	10661	UGACAUUG G GCUUUGAA	14212	UUCAAAGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CAAUGUCA	35947
375	10655	UGGGCUUU G AAGUUA	14213	UGUAACUU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	AAAGCCCA	35948
390	10640	CAACAUGU G GGUUCCUC	14214	GAGGACCC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	ACAUGUDG	35949
391	10639	ACAUGUG G GGUUCCUC	14215	GGAGGACC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CACAUGUU	35950
392	10638	ACAUGUGG G GUUCCUCU	14216	AGGAGGAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CCACAUGU	35951
404	10626	CUCCUCC G AGACGGUU	14217	AACCGUCU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	GGAAGGAG	35952

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406	10624	CCUCCGA G	ACGGUUCU	14218	AGAACCGU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UCGGAAGG	35953
409	10621	UCCGAGAC G	GUUCUGAG	14219	CUCAGAAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GUUCUGGA	35954
415	10615	ACGGUUCU G	AGGGCUUA	14220	UAAGCCCU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGAACCGU	35955
417	10613	GGUUCUGA G	GGCUUACA	14221	UGUAAGCC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UCAGAACC	35956
418	10612	GUUCUGAG G	GCUUAACU	14222	AGUUAAGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUCAGAAC	35957
427	10603	GCUUAACU G	GAUCACUU	14223	AAGUGAUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUGUAAGC	35958
428	10602	CUVACAUG G	AUCACUUC	14224	GAAGUGAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAUGUAAG	35959
439	10591	CACUUCGC G	GCUUUGUU	14225	AACAAAGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GCGAAGUG	35960
462	10568	GUCCUCCU G	GGGUUGAG	14226	CUCAACCC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGGAGGAC	35961
463	10567	UCCUCCUG G	GGUUGAGU	14227	ACUCAACC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAGGAGGA	35962
464	10566	CCUCCUGG G	GUUGAGUC	14228	GACUCAAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CCAGGAGG	35963
468	10562	CUGGGGUU G	AGUCGCAG	14229	CUGCGACU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AACCCACG	35964
476	10554	GAGUCGCA G	GCAGCACC	14230	GGUGGUGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGCAGCTC	35965
500	10530	CAACUCC G	GUGGCGGG	14231	CCCGCCAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GGAAAGUU	35966
503	10527	CUCCCGGU G	GCGGGAAC	14232	GUUCCCGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACCGGAAG	35967
506	10524	CCGGUGGC G	GGAAUUC	14233	GAAGUUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GCCACCGG	35968
507	10523	CGGUGGCG G	GAACUUC	14234	GGAAUUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CGCCACCG	35969
508	10522	GGUGGCGG G	AACUUC	14235	GGGAAGUU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CCGCCACC	35970
517	10513	AACUCC G	GCCUGACU	14236	AGUCAGGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GGAAAGUU	35971
522	10508	CCGGGCTU G	ACUUCUC	14237	GAGAAAGU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGGCCCGG	35972
622	10408	UUACAAU G	AUUAUAU	14238	UAUUAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUUGUA	35973
681	10349	UCUUAGU G	AACUCAUG	14239	CAUGAGUU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACUAAAGA	35974
713	10317	UCAUCC G	AUGAUUGC	14240	GCAAUCAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GGAGAUGA	35975
716	10314	UUCGCGAU G	AUUGUCU	14241	AGAGCAAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUCGGAGA	35976
725	10305	AUUGUCU G	ACUUGGUU	14242	AACCAAGU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGAGCAAU	35977
730	10300	UCUGACU G	GUUGAUAG	14243	CUAUCAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAGUCAGA	35978
734	10296	ACUUGGUU G	AUAGCCAC	14244	GUGGCUAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AACCAAGU	35979
745	10285	AGCCACCU G	GAUGUUUU	14245	AAAACAUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGGUGGCU	35980
746	10284	GCCACCTG G	AUGUUUUC	14246	GAACAACU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAGGUGGC	35981
764	10266	GCCACCGU G	GCUCGGGC	14247	GCCCAGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACGUGGGC	35982
769	10261	CGUGGCUC G	GGCUCUUG	14248	CAAGAGCC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GAGCCACG	35983
770	10260	GUGGCUCG G	GCUCUUGU	14249	ACAAGAGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CGAGCCAC	35984
787	10243	GCCAUCA G	GCUGCCAC	14250	GUGGCAGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGAUUGGC	35985
800	10230	CCACACCA G	AUGUCCUC	14251	GAGGACAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGGUGUGG	35986
819	10211	GUUUCCU G	AUAUUGG	14252	CCCAUAUU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGGAAAC	35987
825	10205	CUGAAUAG G	GGACGUCA	14253	UGACGUCC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUAUUCAG	35988
826	10204	UGAAUAG G	GAGUCAC	14254	GUGAGCUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAUAUUA	35989
827	10203	GAUAUGG G	ACGUCACU	14255	AGUGAGGU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CCAUAUUC	35990
849	10181	UCUCCACU G	GGUUUUG	14256	CAAAACCC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGUGGAGA	35991
850	10180	CUCCACUG G	GGUUUUGU	14257	ACAAAACC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAGUGGAG	35992

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851	10179	UCCACUGG G	GUUUGUC	14258	GACAAAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CCAGUGGA	35993
892	10138	CCAAAC G	GUUCCAGA	14259	UCUGGAAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GUGUUUGG	35994
899	10131	CGUUAAC G	ACCUCCAA	14260	UUGGAGGU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGGAACCG	35995
943	10087	UCUGCAU G	GAUGGACC	14261	GGUCCAUC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUGCAGGA	35996
944	10086	CCUGCAU G	AUGGACCA	14262	UGGUCCAUC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CAUGCAGG	35997
947	10083	GCAUGAU G	GACCAAGU	14263	ACUGGGUC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUCCAUGC	35998
948	10082	CAUGGAU G	ACCAAGUG	14264	CACUGGUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CAUCCAUG	35999
956	10074	GACCACU G	GUUCUUC	14265	GGAGAAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACGUGGUC	36000
965	10065	GUUCUUC G	GUAGGAC	14266	GUCCUAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GGAAGAAC	36001
969	10061	UUCGGUA G	GGACCCAA	14267	UUGGUCC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UACCGGAA	36002
970	10060	UCGGUAG G	GACCCAAU	14268	AUUGGUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CUACCGGA	36003
971	10059	CCGUAGG G	ACCCAAU	14269	AUUGGUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CUACCGG	36004
984	10046	AUUCACA G	GGACAGG	14270	CGTUGUC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGUGAAU	36005
985	10045	AUUCACAG G	GACAGCG	14271	CCGUGUC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CUGUGAAU	36006
986	10044	UUCACAG G	ACAGCGGA	14272	UCCGUGU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CCUGGAA	36007
992	10038	GGACAGC G	GAGCAAU	14273	AUUGCUC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GCUGUCC	36008
993	10037	GGACAGG G	AGCAAUG	14274	CAUUGCU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CGCUGUCC	36009
1001	10029	GAGCAAU G	GGUUGGC	14275	GCCACGC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUUGGUC	36010
1007	10023	AUGGCGU G	GCAUGAG	14276	CUCAGGC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AACGCCAU	36011
1013	10017	UUGGCCAU G	AGCCGCG	14277	CUGGGCU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUGGCCAA	36012
1021	10009	GAGCCGA G	GUCUCUC	14278	GAAGAGC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGCGGUC	36013
1033	9997	UUCUCUG G	GAAGUACA	14279	UGUACUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACAGAAGA	36014
1034	9996	CUUCUGG G	AAGUACAG	14280	CUGUACU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CACAGAG	36015
1042	9988	GAAGUACA G	AAGCAGC	14281	GGUGCUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGUACUUC	36016
1057	9973	CCACAUU G	GGCAUAG	14282	CUUAGCC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGAUGUG	36017
1058	9972	CACAUUG G	GCAUAGA	14283	UCUUAUG	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CAGAUGG	36018
1065	9965	GGCAUAA G	ACUAGCC	14284	GGCUAAGU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UUAUGCC	36019
1075	9955	CUUAGCA G	ACAGCAG	14285	CUGCUUGU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGGCUAAG	36020
1090	9940	AGUGUCG G	GACGUUC	14286	GGAACGUC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GCGACAU	36021
1091	9939	GUGUCGG G	ACGUUCCA	14287	UGGAACGU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GCGACAC	36022
1103	9927	UUCUACG G	GCCCUUG	14288	CCAGGGGC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GGAUGGAA	36023
1110	9920	CGGCCCU G	GAGAUAG	14289	CAUAUCU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGSGGCG	36024
1111	9919	GGCCCCU G	AGAUUAG	14290	GCAUAUCU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CAGGGGC	36025
1113	9917	CCCCUGA G	AUAUGCG	14291	UCCCAU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UCCAGGGG	36026
1120	9910	AGAUUGC G	AGCUCUG	14292	GCAGAGCU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GCAUAUCU	36027
1150	9880	CUGUCCU G	GCAUGGA	14293	UUCCAUGC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GAGACAG	36028
1155	9875	CUCGGCAU G	GAACCAAC	14294	GGUGGUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUGCCGAG	36029
1156	9874	UCGGCAU G	AACCAACA	14295	UGGUGGU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CAUGCCGA	36030
1184	9846	UCUUCAU G	AUCAAUUC	14296	GAAUUGAU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUGAAGA	36031
1196	9834	AUUCAGU G	AAUUGGU	14297	AACCAUUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACUGAAU	36032

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1201	9829	AGUGAAU G GUUGAGC	14298	GCUCAAAC GGAGAAACUCCCUCAAGGACAUCGUCGCGG AUUUCACU	36033
1206	9824	AAUGGUU G AGCAAAU	14299	AUUUUGCU GGAGAAACUCCCUCAAGGACAUCGUCGCGG AAACCAUU	36034
1215	9815	AGCAAAU G GAACUUG	14300	GCAGGUUC GGAGAAACUCCCUCAAGGACAUCGUCGCGG AUUUGCU	36035
1216	9814	GCAAAU G AACCUUG	14301	AGCAGGUU GGAGAAACUCCCUCAAGGACAUCGUCGCGG CAUUUGC	36036
1245	9785	AUCCAGU G AGGCUUUC	14302	GAACCCGU GGAGAAACUCCCUCAAGGACAUCGUCGCGG AACUGGAG	36037
1248	9782	CAGUAG G GUUCCAC	14303	GUGGAAAC GGAGAAACUCCCUCAAGGACAUCGUCGCGG GUCAACU	36038
1261	9769	CCACUUG G GAUGUCU	14304	AAGACAUC GGAGAAACUCCCUCAAGGACAUCGUCGCGG AAGAGUGG	36039
1262	9768	CACUCUG G AUGUCUU	14305	AAAGACAU GGAGAAACUCCCUCAAGGACAUCGUCGCGG CAAGAGUG	36040
1273	9757	GUUUUGC G AACUUUG	14306	CAAAAGUU GGAGAAACUCCCUCAAGGACAUCGUCGCGG GCAAGAGC	36041
1281	9749	GAACUUU G ACAUAGC	14307	UGCUAUGU GGAGAAACUCCCUCAAGGACAUCGUCGCGG AAAGGUUC	36042
1292	9738	AUAGCAU G AGGAAGU	14308	CACUUCU GGAGAAACUCCCUCAAGGACAUCGUCGCGG AAUGCUAU	36043
1294	9736	AGCAUUG G GAAGUGA	14309	UCCACUUC GGAGAAACUCCCUCAAGGACAUCGUCGCGG UCAAUUGU	36044
1295	9735	GCAUUGG G AAGUGAG	14310	CUCCACU GGAGAAACUCCCUCAAGGACAUCGUCGCGG CUCAAUUG	36045
1300	9730	GAGGAAG G GAGCGAG	14311	CCUCGCU GGAGAAACUCCCUCAAGGACAUCGUCGCGG ACUUCCUC	36046
1301	9729	AGGAAGU G AGCGAGU	14312	ACUCCGU GGAGAAACUCCCUCAAGGACAUCGUCGCGG CACUUCU	36047
1305	9725	AGUGGAG G AGGUGGA	14313	UGCCACU GGAGAAACUCCCUCAAGGACAUCGUCGCGG GCUCUCA	36048
1307	9723	UGGAGGA G GUUGCAA	14314	UUUGCCAC GGAGAAACUCCCUCAAGGACAUCGUCGCGG UCGUCUCA	36049
1310	9720	AGGAGGU G GCAAGCG	14315	CGUUUGC GGAGAAACUCCCUCAAGGACAUCGUCGCGG ACCUCGU	36050
1318	9712	GGCAAGC G AUCGUCA	14316	UGGACGAU GGAGAAACUCCCUCAAGGACAUCGUCGCGG GCUUUGCC	36051
1327	9703	AUCGUCA G GGGCUUA	14317	UAAAGCC GGAGAAACUCCCUCAAGGACAUCGUCGCGG UGGACGAU	36052
1328	9702	UGUCCAG G GGUUUA	14318	GUAAAGC GGAGAAACUCCCUCAAGGACAUCGUCGCGG CUGGACGA	36053
1329	9701	CGUCCAG G GCUUAAC	14319	GGUAAAGC GGAGAAACUCCCUCAAGGACAUCGUCGCGG CCUGGACG	36054
1355	9675	UCUCCAU G ACAGCAU	14320	AUGGCUU GGAGAAACUCCCUCAAGGACAUCGUCGCGG AGUGGAGA	36055
1366	9664	AGCCAUG G GCUAGUC	14321	GACUCAGC GGAGAAACUCCCUCAAGGACAUCGUCGCGG GCAUGGU	36056
1370	9660	AUGGGGU G AGUCUUU	14322	GAAGACU GGAGAAACUCCCUCAAGGACAUCGUCGCGG AGCCGCAU	36057
1400	9630	AACAGCA G GUCCUGAC	14323	GUACAGC GGAGAAACUCCCUCAAGGACAUCGUCGCGG UGGCUGUU	36058
1406	9624	CAGGUCC G ACUUUGG	14324	CCCAAGU GGAGAAACUCCCUCAAGGACAUCGUCGCGG AGGACUG	36059
1412	9618	CUGACUU G GGUCCUU	14325	AAAGGACC GGAGAAACUCCCUCAAGGACAUCGUCGCGG AAAGUCAG	36060
1413	9617	UGACUUU G GUCCUUU	14326	GAAGGAC GGAGAAACUCCCUCAAGGACAUCGUCGCGG CAAAGUCA	36061
1430	9600	CCUUUGU G AGUUUCU	14327	GAGAAACU GGAGAAACUCCCUCAAGGACAUCGUCGCGG ACAAAAGG	36062
1449	9581	CAUCAUC G GGCRAUC	14328	GAUUGGCC GGAGAAACUCCCUCAAGGACAUCGUCGCGG AGAUGAU	36063
1450	9580	AUCAUCG G GCCAAUC	14329	UGAUUGGC GGAGAAACUCCCUCAAGGACAUCGUCGCGG CAGAUGAU	36064
1489	9541	CACAGCU G GACGGCA	14330	UGGCCGUC GGAGAAACUCCCUCAAGGACAUCGUCGCGG AGCUGGUG	36065
1490	9540	ACCAGUG G AGGGCAG	14331	CUGGCCGU GGAGAAACUCCCUCAAGGACAUCGUCGCGG CAGCUGGU	36066
1493	9537	AGUGGAC G GCCAGGU	14332	AACUUGC GGAGAAACUCCCUCAAGGACAUCGUCGCGG GUCCAGCU	36067
1498	9532	GACGGCA G GUUGUGA	14333	UCACCAAC GGAGAAACUCCCUCAAGGACAUCGUCGCGG UGGCCGUC	36068
1502	9528	GCCAGGU G GUGAAAU	14334	ACUUUCAC GGAGAAACUCCCUCAAGGACAUCGUCGCGG AACUUGGC	36069
1505	9525	AGGUUGU G AAAGUUG	14335	AAACUUU GGAGAAACUCCCUCAAGGACAUCGUCGCGG ACCAACU	36070
1516	9514	AGUUUUA G GCGUAGG	14336	CUUACGCC GGAGAAACUCCCUCAAGGACAUCGUCGCGG UAAACACU	36071
1517	9513	GUGUUAG G GCUAGGU	14337	ACCUACGC GGAGAAACUCCCUCAAGGACAUCGUCGCGG CUAAACAC	36072

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1523	9507	AGGGGUA G GUGAACAC	14338	GUUGUCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG UACGGCCUU	36073
1526	9504	GGUAGGU G ACAACUG	14339	CAAGUUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG ACCUACGC	36074
1549	9481	CCCCUCU G AUCUUCUC	14340	GAGAAGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG AGAGGGGG	36075
1559	9471	UCUUCUCU G GAGUAAC	14341	GUUAUCUC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG AGAGAAGA	36076
1560	9470	CUUCUCUG G AGUAACA	14342	UGUUAUCU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG CAGAGAAG	36077
1562	9468	UCUCUGG G AUAACAUC	14343	GAUGUUAU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG UCCAGAGA	36078
1574	9456	ACAUCU G ACGUUCU	14344	AGAACGUU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG AUGGAUGU	36079
1577	9453	UCCAUGAC G GUUCUUC	14345	GGAAGAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG GUCAUGGA	36080
1596	9434	CAGCAGCC G GCGCAUC	14346	GAUGCACC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG GGCUGCUG	36081
1597	9433	AGCAGCC G GCGAUA	14347	UGAUGCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG CGGCUCUC	36082
1621	9409	AACUUGU G ACGAUGG	14348	CCUAUCGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG ACAAAGUU	36083
1624	9406	UUUGUAC G AUAGGUA	14349	UCACCUAU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG GUCACAAA	36084
1628	9402	UGACGAU G GUGAGCUC	14350	GAGCUCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG UAUUGUCA	36085
1631	9399	CGAUAGGU G AGCUCAA	14351	AUUGAGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG ACCUAUCG	36086
1640	9390	AGCUCAA G AUGGCCU	14352	AGGGCAU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG AUUGAGCU	36087
1643	9387	UCAUGAU G GCCUGGC	14353	GCCAGGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG AUCAUUGA	36088
1649	9381	AUGGCCU G GCAAGAC	14354	CGUCUUGC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG AGGGCCAU	36089
1654	9376	CCUGGCA G ACGCCGAU	14355	AUCGGGUU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG UUGCCAGG	36090
1660	9370	AAGCGCC G AUGUCCC	14356	GGGAACAU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG GGCUGUCU	36091
1718	9312	GCUCUGU G AUGGGGU	14357	ACCCGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG ACGAGAGC	36092
1723	9307	CGUGAUC G GUGUCCC	14358	GGGACACC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG GCAUCACG	36093
1724	9306	GUGAUGC G GUGUCCA	14359	UGGGACAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG CGCAUCAC	36094
1754	9276	UCAGCAU G AUCUUGC	14360	GGCAAGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG UAUUCUGA	36095
1767	9263	UGCCCCA G GCGGGUG	14361	CACCCGGC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG UGGGGGCA	36096
1771	9259	CCAGGCC G GUGGCCAA	14362	UUGGCACC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG GGCCTUGG	36097
1772	9258	CCAGGCC G GUGCCAAC	14363	GUUGGCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG CGGCCUGG	36098
1789	9241	UUCACGCA G GAUGUAAC	14364	GUUACAUC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG UGCGUGAA	36099
1790	9240	UCACGCG G AUGUAACC	14365	GGUUAUUA GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG CUGCGUGA	36100
1807	9223	CAGUUUU G GAGGCCCA	14366	UGGGCCUC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG AAAAACTU	36101
1808	9222	AGUUUUG G AGGCCCAA	14367	UUGGGCCU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG CAAAAACTU	36102
1810	9220	UUUUUGA G GCCCAAGC	14368	GCUUGGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG UCCAAAAA	36103
1823	9207	AAGCCUC G ACACUCC	14369	GGAGGUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG GAGGGCUU	36104
1836	9194	CUCCUCU G AGUUCUU	14370	AAAGAACTU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG AGGAGGAG	36105
1858	9172	AAGCCAGU G GUCUUAU	14371	AUGAAGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG ACUGGCUU	36106
1868	9162	UCUUAU G AGAAAAC	14372	GGUUUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG AAUGAAGA	36107
1870	9160	UUCAUUA G AAAACCCA	14373	UGGGUUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG UCAUUGAA	36108
1879	9151	AAAACCA G AGCCUGA	14374	UCGAGGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG UGGGUUUU	36109
1886	9144	AGAGCCUC G ACUCCAG	14375	CUGGAGUU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG GAGGCUU	36110
1894	9136	GAACUCC G AAAGCGAG	14376	CUCGCUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG UGGAGUUC	36111
1900	9130	CAGAAAGC G AGCUCGGA	14377	UCGGAGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGGG GCUUUCUG	36112

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1907	9123	CGAGTCC G AGCCACAU	14378	AUGUGGUU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GGAGTCCG	36113
1916	9114	AGCCACAU G AACCAAAU	14379	AUUUGGUU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUGUGGUU	36114
1925	9105	AACCAAAU G GCUCUGU	14380	AGCAGAGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUUUGGUU	36115
1940	9090	CUUCCCUU G GCUUUUCC	14381	GGAAAGGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAGGAAAG	36116
1949	9081	GCUUUCC G AACUCUCC	14382	GGAGAGUU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GGAAAGGC	36117
1958	9072	ACUCUCC G GGUUUUUU	14383	AAAAAAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GGAGAGUU	36118
1959	9071	ACUCUCG G GUUUUUUC	14384	GAAAAAAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CGGAGAGU	36119
2002	9028	GCAAGUG G ACAUUUCC	14385	GGGAUUU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACACUUUC	36120
2017	9013	CCCCCGCA G AUGUGGUU	14386	AGGCACAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGCUGGCG	36121
2058	8972	AAAAUUU G GAUUAUCA	14387	UGAAGAUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAAAUUUU	36122
2059	8971	AAAUUUG G AUUUUCAA	14388	UUAGAAGU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAAAAAUU	36123
2078	8952	GUUCUCU G GCGUCUCU	14389	AGGAGCGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGAGAGGC	36124
2092	8938	CUCCCAU G AUUCUGCU	14390	AGCAGAAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAUGGAGG	36125
2111	8919	UCAAACAU G GCACCCAA	14391	UUGGUUUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUGUUUGA	36126
2135	8895	UUGUGUU G ACCUUUCU	14392	AGAAAGGU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AACAGCAA	36127
2147	8883	UUUCUUAU G AAUUCUUC	14393	GAGAAAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUAAAGAA	36128
2158	8872	UUCUCUC G AGAGCACA	14394	UGUGUCU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GAGAGGAA	36129
2160	8870	CCUCUGA G AGCACAUU	14395	AAUGUGCU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UCGAGAGG	36130
2171	8859	CACAUUC G GGACGUUU	14396	AAACGUCC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGAAUUGU	36131
2172	8858	ACAUUCG G GAGUUUUU	14397	AAACGUUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAGAAUUG	36132
2173	8857	CAUUCUG G ACGUUUUU	14398	AAAAACGU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CCAGAAUG	36133
2186	8844	UUUUCUC G GCCAAAAA	14399	UUUUUGGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGAGAAAA	36134
2210	8820	AACAGUU G GUGGUCUC	14400	GAGACAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAUUGGUU	36135
2213	8817	CAGUUGU G GUUCUAUU	14401	AAUGAGAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACCAACUG	36136
2222	8808	GUUCUAU G AGCAGGUA	14402	UACUGUCU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAUGAGAC	36137
2244	8786	CUCCUUC G GCGGUUCA	14403	UGAACCGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGAAGGAG	36138
2247	8783	CUUCUGC G GUUCAGGA	14404	UCCUGAAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GCCAGAA	36139
2253	8777	GCGGUUCA G GAGUUUUC	14405	GAAAGCUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGAACCGC	36140
2254	8776	CGGUUCAG G AGCUUUCG	14406	CGAAAGCU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUGAACCG	36141
2279	8751	UUCUCUU G AACACUCG	14407	CGAGUGUU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAAGAGAA	36142
2297	8733	UGCUGCC G AAGGGAGU	14408	ACUCCCUU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GGGCAGCA	36143
2300	8730	UGCCCGAA G GGAGUAGU	14409	ACUACUCC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UUCGGGCA	36144
2301	8729	GCCCGAAG G GAGUAGUG	14410	CACUACUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUUCGGGC	36145
2302	8728	CCCGAAGG G AGUAGUGU	14411	ACAUACUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUUCGGGC	36146
2318	8712	UCAGUAU G GCCAUGGU	14412	ACCAUGGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUGACUGA	36147
2324	8706	AUGGCCAU G GUGGUAA	14413	GUUACAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUGGCCAU	36148
2327	8703	GCCAUGU G GUAAACAU	14414	AAUGUUAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACCAUGGC	36149
2339	8691	ACAUUCU G AUGGUGUC	14415	GACACCAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACGAAUUG	36150
2342	8688	UUCUGAU G GUGUCCCA	14416	UGGACAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUCACGAA	36151
2352	8678	UGUCCCAU G GUUUUGAG	14417	CUCAAAAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUGGGACA	36152

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2358	8672	AUGGUUU G AGAGGAGC	14418	GCUCUCUCU GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG AAAACCAU	36153
2360	8670	GUUUUUGA G AGGAGCCU	14419	AGGUCUCUCU GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG UCAAAACC	36154
2362	8668	UUUGAGA G GAGCCUGA	14420	UCAGGCUC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG UCUCAAAA	36155
2363	8667	UUUGAGG G AGCCUGAC	14421	GUCAGGCU GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG CUCUCAAA	36156
2369	8661	UUGAGCCU G ACCACUCC	14422	GGAGUGGU GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG AGGUCUCU	36157
2381	8649	ACUCCAU G ACCAGCGA	14423	UCGUCUGU GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG AAUGGAGU	36158
2388	8642	UGACCAG G AACUGGCG	14424	CGCCAGUU GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG GCUGGUCA	36159
2393	8637	ACGGAACU G GCGGAGCC	14425	GGUCUCCG GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG AGUUCGCU	36160
2396	8634	GAACUGG G GAGCCUGU	14426	ACAGGCUC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG GCCAGUUC	36161
2397	8633	AACUGGCG G AGCCUGUG	14427	CACAGGCU GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG CGCCAGUU	36162
2405	8625	GAGCCUGU G GCUUCAC	14428	GUGAAGCC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG ACAGGCUC	36163
2406	8624	AGCCUGUG G GCUUCACA	14429	UGUGAAGC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG CACAGGCU	36164
2428	8602	ACUGCCGU G AUAGUCC	14430	GGAAACUUA GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG ACGGCAGU	36165
2438	8592	UAGUCCA G GUUCUAUA	14431	UAUAGAAC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG UGGAACUA	36166
2448	8582	UUCUAUAU G GGUGGUUC	14432	GAACCACC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG AUAUAGAA	36167
2449	8581	UGUAUAUG G GUGGUUCU	14433	AGAACCCAC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG CAUAUAGA	36168
2452	8578	AUAUGGU G GUUCUCAU	14434	AUGAGAAC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG ACCCAUUA	36169
2464	8566	CUAUCGU G GUGCCACG	14435	CGUGGCAC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG ACGAUGAG	36170
2475	8555	GCCACGUC G AACUGUAC	14436	GUACAGUU GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG GACGUGGC	36171
2492	8538	UCAGGCU G AGUCGUUC	14437	GAAACGACU GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG AGGCGUGA	36172
2513	8517	CUGUUCU G AUUUUACU	14438	AGUAAAUU GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG AGAACAG	36173
2522	8508	AUUUUAU G GUGUCUGA	14439	UCAGACAC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG AGUAAAUU	36174
2529	8501	UGUGUCU G AGUUGAGC	14440	GCUCAAAU GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG AGACACCA	36175
2534	8496	UCUGAUU G AGCAGGGG	14441	CCCCUGCU GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG AACUCAGA	36176
2539	8491	GUUGAGCA G GGUUUUUC	14442	GAAACCCU GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG UGCUCAAC	36177
2540	8490	UUGAGCAG G GGUUUUCC	14443	GGAAACCC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG CUGUCUAA	36178
2541	8489	UGAGCAG G GUUUUCC	14444	GGGAAAC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG CCUGCUCA	36179
2558	8472	ACGCCCUU G GUUCCACU	14445	AGUGGAAC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG AGGCGGCU	36180
2593	8437	CUUGUAU G GGGUCCCU	14446	AGGACCCU GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG AAUACGAG	36181
2594	8436	UGUAUUG G GGUCCCUU	14447	AAGGACC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG CAAUACGA	36182
2595	8435	CGUAUUG G GUCCCUUC	14448	GAAGGAC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG CCAUACG	36183
2606	8424	CCUUAU G GUCCUUUU	14449	AAAAGGAC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG UGGAAGGG	36184
2629	8401	UUCUCCUA G GAGCACCU	14450	AGUGUCUC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG UAGGAAGA	36185
2630	8400	CUUCCUAG G AGCACCUU	14451	CAGUGUCU GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG CUAGGAG	36186
2638	8392	GAGCACCU G GUGGUUCA	14452	UGACGAGC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG AGGUGUCU	36187
2642	8388	ACCUGGCU G GUCAUAUU	14453	AAUAUAGC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG AGCCAGGU	36188
2655	8375	UAUUCACU G AAUGUACC	14454	GUUACAUU GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG AGUGAUA	36189
2673	8357	CAUUGCCU G AAGCUCGA	14455	UCGAGCUU GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG AGGCAUUG	36190
2680	8350	UGAAGCUC G ACUCACCC	14456	GGGUGAGU GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG GAGCUUCA	36191
2705	8325	UCGUGCGU G GAAUUCGG	14457	CGGAAUUC GGAGGAAACUCCUUCUAAAGGACAUCGUCUCCGGG ACGCACGA	36192

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2706	8324	CGUGCGUG G AAUUCGUG	14458	ACGGAUU GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	CACGCACG	36193
2715	8315	AAUUCGUG G AGAGUGGG	14459	CCCACUCU GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	ACGGAUU	36194
2717	8313	UUCGUGA G AGUGGGU	14460	AAACCACU GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	UCACGGAA	36195
2721	8309	GUGAGUG G GGUUUCUG	14461	CAGAAAC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	ACUCUCAC	36196
2722	8308	UGAGAGU G GUUUCUGA	14462	UCAGAAAC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	CACUCUCA	36197
2729	8301	GGGUUUCU G ACCAGUCC	14463	GGACUGGU GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	AGAAACCC	36198
2749	8281	CCCAUAC G GCGUUGGA	14464	UCCAACGC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	GGUAUGGG	36199
2755	8275	CGGCGGUU G GAGCAGU	14465	AGUCGUC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	AACGCCGG	36200
2756	8274	CGGCGUUG G AGCAGUUC	14466	GAGCUGCU GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	CAACGCCG	36201
2777	8253	UUCUCUAU G ACUUCGCG	14467	CCGAAAGU GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	AUAGAGAA	36202
2784	8246	UGACUUC G GCAUGUAG	14468	CUACAUGC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	GAAAGUCA	36203
2792	8238	GGCAUGUA G GGCAGAG	14469	CUCUGCCC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	UACAUGCC	36204
2793	8237	GCAUGUAG G GGCAGAGC	14470	GCUCUGCC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	CUACAUGC	36205
2794	8236	CAUGUAGG G GCAGAGCA	14471	UGCUCUGC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	CCUACAUG	36206
2798	8232	UAGGGGCA G AGCACCUU	14472	AAGGUGCU GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	UGCCCCUA	36207
2823	8207	AUUCUUU G GCCUCGCG	14473	CCGAGGGC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	AAGGGAU	36208
2830	8200	UGGCCUUC G GUGCAGCC	14474	GGCUGCAC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	GAGGGCCA	36209
2857	8173	CAUUCAA G GACCCGAA	14475	UUCGGGUC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	UUGAAAUG	36210
2858	8172	AUUCUAG G ACCCGRAU	14476	AUUCGGGU GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	CUUGAAAU	36211
2863	8167	AAGGACC G AAUCGUCC	14477	GGACGAU GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	GGGUCUU	36212
2895	8135	CAGCAUU G ACGAGGAC	14478	GUCCUCGU GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	AAGUGCUG	36213
2898	8132	CACUAGC G AGGACUCU	14479	AGAGUCCU GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	GUCAAGUG	36214
2900	8130	CUAGCGA G GACUUC	14480	GGAGAGUC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	UCGUCAAG	36215
2901	8129	UUGACGAG G ACUCUCG	14481	CGGAGAU GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	CUCGUCAA	36216
2909	8121	GACUCUCC G AUGUCACA	14482	UGUGACAU GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	GGAGAGUC	36217
2920	8110	GUCACAAA G GAGGGUGU	14483	ACACCCUC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	UUUGUGAC	36218
2921	8109	UCACAAAG G AGGGUGUC	14484	GACACCCU GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	CUUUGUGA	36219
2923	8107	ACAAAGGA G GGUGUCAC	14485	GUGACACC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	UCCUUUGU	36220
2924	8106	CAAAGGAG G GUGUCACA	14486	UGUGACAC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	CUCUUUG	36221
2940	8090	AACACUCA G AAGGUCUG	14487	CAGACCUU GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	UGAGUGUU	36222
2943	8087	ACUCAGAA G GUCUGUAG	14488	CUACAGAC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	UUCUGAGU	36223
2951	8079	GGUCUGUA G AACACAU	14489	GAUGUGU GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	UACAGACC	36224
2975	8055	CUCUDCAU G GUGACAAU	14490	AUUGUCAC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	AUGAAGAG	36225
2978	8052	UUCAUUGU G ACAUUGU	14491	AAAUUGU GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	ACCAUGAA	36226
3010	8020	CACUAGUU G GGGUCUU	14492	AAGAGCCC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	AACUAGUG	36227
3011	8019	ACUAGUUG G GGCUCUUC	14493	GAAGACC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	CAACTAGU	36228
3012	8018	CUAGUUGG G GCUCUUA	14494	UGAAGAGC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	CCAACTAG	36229
3026	8004	UCAUGUCC G GGACCGCC	14495	GGCGGUCC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	GGACAUGA	36230
3027	8003	CAUGUCCG G GACCGCCC	14496	GGCGGUCC GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	CGGACAUG	36231
3028	8002	AUGUCCGG G ACCGCCU	14497	AGGCGCGU GGAGAAACUCCCUUUAAGGACAUCGUCGCGG	CCGGACAU	36232

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3050	7980	UACCTUCU G ACUCUUG	14498	CAAGAAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGAGGGUA	36233
3058	7972	GACUCUCU G GACUCUUU	14499	AAAGAGUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AAGAAGUC	36234
3059	7971	ACUCUUG G ACUCUUUU	14500	AAAAGAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CAAGAAGU	36235
3070	7960	UCUUUUU G GGUUGCCA	14501	UGGCAACC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AAAAAAGA	36236
3071	7959	CUUUUUU G GUUGCCAU	14502	AUGCCAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CAAAAAAG	36237
3112	7918	ACAUCAA G GUCAAUCA	14503	UGAUUGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UUGGAUGU	36238
3128	7902	ACUUUCC G ACCGUUUC	14504	GAACCCGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GGAAAAGU	36239
3132	7898	UUCGACC G GUUCGAGA	14505	UCUCGAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GGUCGGAA	36240
3137	7893	ACCGUUC G AGAAACCU	14506	AGGUUUCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GAACCCGU	36241
3139	7891	CGGUUGA G AAACCUCC	14507	GGAGGUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UCGAACCG	36242
3152	7878	CUCGUUC G ACCAGCCA	14508	UGGCUUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GAACGGAG	36243
3183	7847	UGCCCUA G AGACUGGA	14509	UCCAGUCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UAGGGGCA	36244
3185	7845	CCCUAGA G ACUGGAUG	14510	CAUCCAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UCUAGGGG	36245
3189	7841	UAGAGACU G GAUGCCCU	14511	AGGGCAUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGUCUCUA	36246
3190	7840	AGAGACUG G AUGCCUUC	14512	GAGGGCAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CAGUCUCU	36247
3203	7827	CCUCAGU G ACADUGCC	14513	GGCAUUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG ACUGGAGG	36248
3221	7809	UCUUUCCU G GCGUGUUU	14514	AAACACGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGGAAAGA	36249
3237	7793	UUGCGGU G AGCGAUCG	14515	CGAUCCGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGCGGCAA	36250
3241	7789	CGTUGAGC G AUCGACUU	14516	AAGUCGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GCUCAGCG	36251
3245	7785	GAGGAUC G ACUUCGAU	14517	AUCGAAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GAUCGCUU	36252
3251	7779	UCGACUUC G AUGAUGGC	14518	GCCAUCAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GAAGUCGA	36253
3254	7776	ACUUCGAU G AUGGCCUC	14519	GAGGCCAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AUCGAAGU	36254
3257	7773	UUCGAGU G GCUUCUUU	14520	AAAGAGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AUCAUUGA	36255
3268	7762	CUCUUGC G GUACCUAG	14521	CUAGGUAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GCAAAGAG	36256
3278	7752	UACCUAGU G AACUCUUC	14522	GAAGAGUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG ACUAGGUA	36257
3298	7732	UGUCAUCU G GUUGAGUC	14523	GACUCAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGAUGACA	36258
3302	7728	AUCUGGUU G AGUCUUUC	14524	GAAGACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AACCGAU	36259
3329	7701	UCUCCCAA G GUUGUCC	14525	GGACGCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UUGGGAGA	36260
3363	7667	UUAUGUCCU G GUUUUUC	14526	GGAAAAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGGACUAA	36261
3383	7647	UUCUUUUAU G AGUGUCCA	14527	UGGACACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AUAAAAGAA	36262
3398	7632	CAUGUUUAU G GAUAGACA	14528	UGUCUAUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AUAAACAUG	36263
3399	7631	AUGUUUAU G AUAGACAU	14529	AUGUCUAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CAUAACAU	36264
3403	7627	UAUGGAUA G ACAUGACA	14530	UGUCAUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UAUAACAUA	36265
3408	7622	AUAGACAU G ACAACCAA	14531	UUGGUUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AUGUCUAU	36266
3428	7602	CCAGCAU G AUGUGGCA	14532	UGCCACAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AUGCGUGG	36267
3433	7597	CAUGAUGU G GCAGAGUC	14533	GACUCUUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG ACAUCAUG	36268
3437	7593	AUGUGGCA G AGUCCGAU	14534	AUCGGACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UGCCACAU	36269
3443	7587	CAGAGUCC G AUGGCAGU	14535	ACUGCCAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GGACUCUG	36270
3446	7584	AGUCCGAU G GCAGUUGU	14536	ACAACUCC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AUCGGACU	36271
3468	7562	UCCAACA G AGCUUGCU	14537	AGCAAGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UGUUUGGA	36272

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3503	7527	ACGCGUC G GCCGUGAU	14538	AUCACGGC GGAGAAACUCCUUAAGGACAUCGUCGCGG	GCACGGGU	36273
3509	7521	GGGCGGU G AUCAAAU	14539	AUUUGAU GGAGAAACUCCUUAAGGACAUCGUCGCGG	ACGGCCGC	36274
3521	7509	AAAUUCC G GCUUCUG	14540	CGAGAAGC GGAGAAACUCCUUAAGGACAUCGUCGCGG	GGAAUUUU	36275
3543	7487	UUUCACA G ACGGGUUC	14541	GAACCCGU GGAGAAACUCCUUAAGGACAUCGUCGCGG	UGUGAAGA	36276
3546	7484	UCACAGAC G GGUUCACU	14542	AGUGAAC GGAGAAACUCCUUAAGGACAUCGUCGCGG	GUCUGUGA	36277
3547	7483	CACAGAC G GUUCACUA	14543	UAGUGAAC GGAGAAACUCCUUAAGGACAUCGUCGCGG	CGUCUGUG	36278
3568	7462	UGCAGUA G AGACACCA	14544	UGGUGUCU GGAGAAACUCCUUAAGGACAUCGUCGCGG	UAGCUGCA	36279
3570	7460	CAGCUAGA G ACACCAAG	14545	CUUGGUGU GGAGAAACUCCUUAAGGACAUCGUCGCGG	UCUAGCUG	36280
3578	7452	GACACAA G AUCAGCAU	14546	AUGCUGAU GGAGAAACUCCUUAAGGACAUCGUCGCGG	UUUGUGUC	36281
3587	7443	AUCAGCAU G AUCUGUCC	14547	GGACAGAU GGAGAAACUCCUUAAGGACAUCGUCGCGG	AUGCUGAU	36282
3611	7419	UUUGCAU G AUGGGUGU	14548	ACACCCAU GGAGAAACUCCUUAAGGACAUCGUCGCGG	AUGCAGAA	36283
3614	7416	UGCAUGAU G GGUGUGU	14549	ACCACACC GGAGAAACUCCUUAAGGACAUCGUCGCGG	AUCAUGCA	36284
3615	7415	GCAUGAU G GUGUGUGU	14550	CACCACAC GGAGAAACUCCUUAAGGACAUCGUCGCGG	CAUCAUGC	36285
3620	7410	AUGGGUUG G GUGGCUUC	14551	GAGCGCAC GGAGAAACUCCUUAAGGACAUCGUCGCGG	ACACCCAU	36286
3636	7394	CUAAUUCU G GAGCGUCC	14552	GGACGUC GGAGAAACUCCUUAAGGACAUCGUCGCGG	AGAAUUG	36287
3637	7393	UAUUUCU G GAGGUCUG	14553	CGGACGUC GGAGAAACUCCUUAAGGACAUCGUCGCGG	CAGAAUUA	36288
3638	7392	AAUUCUG G ACGUCCGU	14554	ACGGACGU GGAGAAACUCCUUAAGGACAUCGUCGCGG	CCAGAAUU	36289
3647	7383	ACGUCGU G GCCACGAU	14555	AUCGUGGC GGAGAAACUCCUUAAGGACAUCGUCGCGG	ACGGACGU	36290
3653	7377	GUGGCCAC G AUGCCAU	14556	GAUGGCAU GGAGAAACUCCUUAAGGACAUCGUCGCGG	GUGGCCAC	36291
3680	7350	UUUUCAU G AUUCCGCG	14557	GCCGGAU GGAGAAACUCCUUAAGGACAUCGUCGCGG	AUGAAGAA	36292
3686	7344	AUGAUCC G GCCGUGU	14558	ACAGCGGC GGAGAAACUCCUUAAGGACAUCGUCGCGG	GGAAUCAU	36293
3703	7327	CGCCGCU G GCGUGAGC	14559	GCUCAGCC GGAGAAACUCCUUAAGGACAUCGUCGCGG	AGCGCGG	36294
3704	7326	CGCGGCU G GCUUGAGG	14560	CGCUCAGC GGAGAAACUCCUUAAGGACAUCGUCGCGG	CAGCGGCG	36295
3708	7322	GCUGGCU G AGCGCAU	14561	AAUGCGU GGAGAAACUCCUUAAGGACAUCGUCGCGG	AGCCGAGC	36296
3734	7296	UGCCACC G GGAACCAU	14562	AUGGUUCC GGAGAAACUCCUUAAGGACAUCGUCGCGG	GGUUGGCA	36297
3735	7295	GCCACCG G GAACCAUG	14563	CAUGGUUC GGAGAAACUCCUUAAGGACAUCGUCGCGG	CGGUUGGC	36298
3736	7294	CCAACCG G AACCAUGU	14564	ACAUGGUU GGAGAAACUCCUUAAGGACAUCGUCGCGG	CCGGUUGG	36299
3746	7284	ACCAUGA G GCAUAGU	14565	CACUAUGC GGAGAAACUCCUUAAGGACAUCGUCGCGG	UACAUGGU	36300
3754	7276	GGCAUAGU G GCAAAAA	14566	UUUUUUGC GGAGAAACUCCUUAAGGACAUCGUCGCGG	ACUAUGCC	36301
3763	7267	GCAAAAA G GAGUGUG	14567	CAACACUC GGAGAAACUCCUUAAGGACAUCGUCGCGG	UUUUUUGC	36302
3764	7266	CAAAAAA G AGUGUUGC	14568	GCAACACU GGAGAAACUCCUUAAGGACAUCGUCGCGG	CUUUUUUG	36303
3788	7242	ACCGUAC G GUGAGGUU	14569	ACCCUAC GGAGAAACUCCUUAAGGACAUCGUCGCGG	GUUACGGU	36304
3791	7239	GUACGGU G AGGGUGAC	14570	GUCACCCU GGAGAAACUCCUUAAGGACAUCGUCGCGG	ACCGUAC	36305
3793	7237	AACGGUA G GGUGACU	14571	AAUGUACC GGAGAAACUCCUUAAGGACAUCGUCGCGG	UCACCGUU	36306
3794	7236	ACGGUAG G GUGACUUG	14572	CAAGUACC GGAGAAACUCCUUAAGGACAUCGUCGCGG	CUCACCGU	36307
3797	7233	GUGAGGU G ACUGUUC	14573	GGACAAAGU GGAGAAACUCCUUAAGGACAUCGUCGCGG	ACCCUAC	36308
3815	7215	CAGAUCC G GUGUUG	14574	CUAGCAGC GGAGAAACUCCUUAAGGACAUCGUCGCGG	GGAUGCUG	36309
3826	7204	UGCUAGCA G GAGAGCCG	14575	CGGCUCUC GGAGAAACUCCUUAAGGACAUCGUCGCGG	UGCUAGCA	36310
3827	7203	GUAGCAG G AGAGCCGA	14576	UCGGUCUC GGAGAAACUCCUUAAGGACAUCGUCGCGG	CUGCUAGC	36311
3829	7201	UAGCAGA G AGCCGACA	14577	UGUGGCU GGAGAAACUCCUUAAGGACAUCGUCGCGG	UCCUGCUA	36312

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3834	7196	GGAGGCC G ACACUCCA	14578	UGGAGUGU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG GGCUCUCC	36313
3848	7182	CCAACAUC G ACGAAGG	14579	CCCUUCGU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG GAUCUUGG	36314
3851	7179	ACAUGCAC G AAGGGAA	14580	UUCUCCUUG GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG GUCGAUGU	36315
3854	7176	UCGACGAA G GGAAGCC	14581	GGCUUCCC GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG UUCGUCGA	36316
3855	7175	CGACGAAG G GGAAGCCU	14582	AGGCUUCC GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG CUUCGUCG	36317
3856	7174	GACGAAG G GAAGCCUC	14583	GAGGCUUC GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG CCUUCGUC	36318
3857	7173	ACGAAGG G AAGCUUG	14584	CGAGGCUU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG CCUUCUUG	36319
3869	7161	CCUCGCGC G AGUGGAA	14585	UUCACACU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG GCGCGAGG	36320
3875	7155	GCGAGUGU G AAUAGUGC	14586	GCACUAU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG ACACUCGC	36321
3892	7138	ACUUGCCU G AACGUUA	14587	UAAACGUU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG AGGCAAGU	36322
3903	7127	CGUUUAU G AGGUCAA	14588	AUUGACCU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG AAUAAACG	36323
3905	7125	UUUAUUA G GUCAAUGA	14589	UCAUUGAC GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG UCAAUAAA	36324
3912	7118	AGGUCAU G AGGUGUG	14590	CAACACCU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG AUUGACCU	36325
3914	7116	GUCAAUGA G GUGUUGAU	14591	AUCAACAC GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG UCAUUGAC	36326
3920	7110	GAGGUGU G AUGUAUC	14592	GAUUAU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG AACACCUU	36327
3930	7100	UGUAUCU G ACGUGAUC	14593	GAUCACGU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG AGAUUACA	36328
3935	7095	UCUGACGU G AUCAAUG	14594	CAUUGAU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG ACGUCAGA	36329
3954	7076	UUAGCAGU G GAGUGAGG	14595	CCUCACUC GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG ACUGCUAA	36330
3955	7075	UAGCAGU G AGUGAGGA	14596	UCCUCACU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG CACUGCUA	36331
3959	7071	AGGAGU G AAGACCGC	14597	GCGGUUU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG ACUCCACU	36332
3961	7069	UGGAGUGA G GACGCUUG	14598	CAGCGUUC GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG UCACUCCA	36333
3962	7068	GGAGUGAG G ACCGCUUG	14599	ACAGCGGU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG CUCACUCC	36334
3987	7043	CGUACAGU G ACCAGGCU	14600	AGCCUGGU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG ACUGUACG	36335
3992	7038	AGUGACCA G GCUGUUGC	14601	GCAACAGC GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG UGGUCACU	36336
4002	7028	CUGUUGCC G GCCUCAAG	14602	CUUGAGGC GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG GGCAACAG	36337
4018	7012	GUCCAAA G AAACUCUC	14603	GAGAGUUU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG UUUUGGAC	36338
4034	6996	CCCAUGCU G AAUUCUC	14604	GAGAAUUU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG AGCAUGGG	36339
4046	6984	UUCUCCU G ACCUCAU	14605	AUUGAGGU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG AAGGAGAA	36340
4088	6942	UCACUCU G GUCUUUUC	14606	GAUAGAC GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG AAGAGUGA	36341
4115	6915	AUCUGUU G GCUGCCAC	14607	GUGGCAGC GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG AACGAGAU	36342
4135	6895	GCUCACAA G GGUCAUGA	14608	UCAUGACC GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG UUGUGAGC	36343
4136	6894	CUACAAG G GUCAUGAC	14609	GUCAUGAC GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG CUUGUGAG	36344
4142	6888	AGGUGAU G ACACAAU	14610	AUUGUGU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG AUGACCCU	36345
4153	6877	ACAAUCA G GAACACGG	14611	CCGUGUUC GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG UGAUUUGU	36346
4154	6876	CAAAUCAG G AACACGGC	14612	GCCUGUUU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG CUGAUUUG	36347
4160	6870	AGGAACAC G GCUAGCUG	14613	CAGCUAGC GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG GUGUUUCU	36348
4168	6862	GGCUGCU G GUUGUCUG	14614	CAGACAAC GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG AGCUAGCC	36349
4182	6848	CUGUCUGC G AACGUUGC	14615	GCAACGUU GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG GCAGACAG	36350
4197	6833	GCUUCUCU G GCUCAGGA	14616	UCCUGAGC GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG AGAGAAGC	36351
4203	6827	CUGGCUCA G GAUUAGC	14617	GCUAUUC GGAGGAAAACUCCCUUCAAAGGACAUCGUCUCCGG UGAGCCAG	36352

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4204	6826	UGGUCAG G AAUAGCA	14618	UGCUAAU GGAGAAACUCCUUAAGGACAUCGUCGGG CUGAGCCA	36353
4223	6807	AUCAUCA G ARAAGGA	14619	UCCUUCU GGAGAAACUCCUUAAGGACAUCGUCGGG UUGAUGAU	36354
4225	6805	CAUCAAG G AAGGGAGA	14620	UCUCCUU GGAGAAACUCCUUAAGGACAUCGUCGGG UCUUGAUG	36355
4228	6802	CAAGAGA G GGAGAGCA	14621	UGCUCUC GGAGAAACUCCUUAAGGACAUCGUCGGG UUCUCUUG	36356
4229	6801	AAAGAAAG G GAGAGCAG	14622	CUGCUCU GGAGAAACUCCUUAAGGACAUCGUCGGG CUUCUCUU	36357
4230	6800	AGAGAAG G AGAGCAGC	14623	CGUCUCU GGAGAAACUCCUUAAGGACAUCGUCGGG CCUUCUCU	36358
4232	6798	AGAGAGA G AGCAGCAA	14624	UUGUCGU GGAGAAACUCCUUAAGGACAUCGUCGGG UCCUCUCU	36359
4247	6783	AACAUCC G GCAUCUU	14625	AAGAUGC GGAGAAACUCCUUAAGGACAUCGUCGGG GGAUUGUU	36360
4250	6780	AUCCCGC G AUCUUCU	14626	ACGAAGU GGAGAAACUCCUUAAGGACAUCGUCGGG GCCGGAU	36361
4263	6767	UCGUUCU G GAACUUA	14627	UGAAGUUC GGAGAAACUCCUUAAGGACAUCGUCGGG AGGAACGA	36362
4264	6766	CGUUCUG G AACUUCAG	14628	CUGAAGUU GGAGAAACUCCUUAAGGACAUCGUCGGG CAGGAACG	36363
4283	6747	AUCCAACA G AAAAGGU	14629	ACUUUUU GGAGAAACUCCUUAAGGACAUCGUCGGG UGUUGGAU	36364
4289	6741	CAGAAAA G GUGCGAC	14630	GUCGCGAC GGAGAAACUCCUUAAGGACAUCGUCGGG UUUUUCUG	36365
4295	6735	AAGGUCG G ACUCCCA	14631	UUGGAGU GGAGAAACUCCUUAAGGACAUCGUCGGG GCGACCU	36366
4304	6726	ACUCCCA G ACAGCGC	14632	GGCGUGU GGAGAAACUCCUUAAGGACAUCGUCGGG UUGGGAGU	36367
4349	6681	CGUCGCU G AGGAGGA	14633	UUCUCCU GGAGAAACUCCUUAAGGACAUCGUCGGG AUGCAGG	36368
4351	6679	CUGAUGA G GAGGAGA	14634	UCUCCUC GGAGAAACUCCUUAAGGACAUCGUCGGG UCAUGCAG	36369
4352	6678	UGCAUGA G AGGAAGAA	14635	UUCUCCU GGAGAAACUCCUUAAGGACAUCGUCGGG CUCAUGCA	36370
4354	6676	CAUGAGA G GAAGAUA	14636	UAUUCUC GGAGAAACUCCUUAAGGACAUCGUCGGG UCCUCAUG	36371
4355	6675	AUGAGAG G AAGAUAC	14637	GUUUUUU GGAGAAACUCCUUAAGGACAUCGUCGGG CUCCUCAU	36372
4358	6672	AGGAGGA G AAUACUC	14638	GGAGUUU GGAGAAACUCCUUAAGGACAUCGUCGGG UUCUCCU	36373
4370	6660	ACUCCCAU G GUCAUCAC	14639	GDGAUGAC GGAGAAACUCCUUAAGGACAUCGUCGGG AUGGGAGU	36374
4388	6642	CUCAUUA G GCAAUCA	14640	UUGAUUGC GGAGAAACUCCUUAAGGACAUCGUCGGG UUAUUGAG	36375
4397	6633	GCAAUCA G GCAUUGU	14641	ACAAUUGC GGAGAAACUCCUUAAGGACAUCGUCGGG UUGAUUGC	36376
4408	6622	AAUUGUC G AAGAGCAU	14642	AUGUCUU GGAGAAACUCCUUAAGGACAUCGUCGGG AGACAUU	36377
4411	6619	UGUCUGA G AGCAUCU	14643	CAGAUGC GGAGAAACUCCUUAAGGACAUCGUCGGG UUCAGACA	36378
4419	6611	GAGCAUC G GCAGUUC	14644	GGAACTGC GGAGAAACUCCUUAAGGACAUCGUCGGG AGAUGTUC	36379
4432	6598	UCCUCA G GGCAUUC	14645	GAAUGGC GGAGAAACUCCUUAAGGACAUCGUCGGG UGGAGGAA	36380
4433	6597	UCCUCAG G GCAUUCU	14646	AGAAUGC GGAGAAACUCCUUAAGGACAUCGUCGGG CUGGAGGA	36381
4444	6586	CAUUCGU G AGCUCUC	14647	GAAGACU GGAGAAACUCCUUAAGGACAUCGUCGGG ACAGAAUG	36382
4469	6561	UCUGCAG G GCAACAC	14648	GUUGUGC GGAGAAACUCCUUAAGGACAUCGUCGGG ACUGCAGA	36383
4484	6546	AGUACAU G GUGUCAAG	14649	CUUGACAC GGAGAAACUCCUUAAGGACAUCGUCGGG AUGUACGU	36384
4514	6516	UUCUCCAU G AAGUCUC	14650	GAGCAUU GGAGAAACUCCUUAAGGACAUCGUCGGG AUGGGGAA	36385
4524	6506	AGUGUCA G GCAUCUU	14651	AAAGUUC GGAGAAACUCCUUAAGGACAUCGUCGGG UUGGAGAA	36386
4537	6493	CUUCCCA G AACCUCAA	14652	UUGAGUU GGAGAAACUCCUUAAGGACAUCGUCGGG UGGGAAAG	36387
4547	6483	ACUCCAU G AGCCCUAU	14653	AUAGGCU GGAGAAACUCCUUAAGGACAUCGUCGGG AUUGAGGU	36388
4558	6472	CCUACU G AGAACGUU	14654	AACGUUC GGAGAAACUCCUUAAGGACAUCGUCGGG AGAUAGGG	36389
4560	6470	CUAUCUA G AAGUUUU	14655	AAAACGU GGAGAAACUCCUUAAGGACAUCGUCGGG UCAGAUAG	36390
4572	6458	GUUUCU G AGGCGAAG	14656	CUUCGCU GGAGAAACUCCUUAAGGACAUCGUCGGG GGGAAAC	36391
4574	6456	UUUCCGA G GCGAAGUC	14657	GACUUCG GGAGAAACUCCUUAAGGACAUCGUCGGG UCGGGAAA	36392

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4577	6453	CCGAGGC G	AGUCCUU	14658	AAGGACUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GCCUCGGG	36393
4586	6444	AGUCCUU G	AAGCCUU	14659	AAGGCGUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AAGGACUU	36394
4603	6427	UAGUGCCU G	GUGAUCG	14660	CGGAUCAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGGCACUA	36395
4606	6424	UGCUGGU G	AUCCGAGU	14661	ACUCGGAU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACCAGGCA	36396
4611	6419	GGGUAUC G	AGUACACC	14662	GGUGUACU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GGAUCACC	36397
4622	6408	UACACCCU G	GGUCAAU	14663	AUUGACGC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGGUGUA	36398
4638	6392	UCAGGCG G	GCCUCAGA	14664	UCUGAGGC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GCGCUGGA	36399
4645	6385	CGGCTUCA G	AUUCUUC	14665	GGAGAUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGAGGCGG	36400
4670	6360	AGUUCGU G	AUGACUUC	14666	GAAGUCAU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACGAAAGCU	36401
4673	6357	UUGUGAU G	ACUUCAC	14667	GUGGAAGU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUCACGAA	36402
4716	6314	UUGUCCUA G	GACCAUCA	14668	UGAUGGUC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UAGGACAA	36403
4717	6313	UGUCCUAG G	ACCAUCA	14669	UUGAUGGU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CUAGGACA	36404
4738	6292	CCACCUC G	GUCGUGU	14670	ACCACGAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GGAGGUGG	36405
4744	6286	CCGUGCU G	GUAUGACA	14671	UGUCAUAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACGACCGG	36406
4749	6281	CGUGGUU G	ACACUCCA	14672	UGGAGUGU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUACCAAG	36407
4788	6242	GCCAAACU G	GCAGAUU	14673	AGAUCUGC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGUUGGCG	36408
4792	6238	AACUGGCA G	AUCUGCAG	14674	CUGCAGAU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGCCAGUU	36409
4816	6214	CAGUCCA G	AAAGUUUU	14675	AAAACUUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGGAACTUG	36410
4841	6189	UCUCCUCU G	AGCCGGUA	14676	UACCGGCU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGAGGAGA	36411
4846	6184	UCUGAGCC G	GUATUCC	14677	GGGAUAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GGCUCAGA	36412
4862	6168	CCAUCCAU G	GUAAUAVAC	14678	GUAAUAVAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUGGAUUG	36413
4884	6146	CACGUCU G	GUUGGUAG	14679	CUACCAAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGAGCGUG	36414
4888	6142	CUCUGGUU G	GUAGAAUU	14680	AAUUCUAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AACCAAGAG	36415
4892	6138	GGUUGGUA G	AAUUGAGC	14681	GCUCAAUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UACCAACC	36416
4897	6133	GUAGAAUU G	AGCGAUCA	14682	UGAUCGCU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AAUUCUAC	36417
4901	6129	AAUUGAGC G	AUCAGUCC	14683	GGACUGAU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GCUCAAUU	36418
4914	6116	GUCCGUUU G	GCAUGUUG	14684	CAACAUGC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AAACGGAC	36419
4922	6108	GGCAUGUU G	AUGUUGUC	14685	GACAAACU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AACAUGCC	36420
4937	6093	UCCAGCAU G	AUUCGUGC	14686	GCACGAUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUGCUGGA	36421
4957	6073	AGUCCAAU G	GCGGAAGU	14687	ACUUCGCC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUUGGACU	36422
4958	6072	GUCCAAUG G	GCGAAGUU	14688	AAUUCGCG	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CAUUGGAC	36423
4961	6069	CAUUGGCG G	AGUUCGA	14689	UCGAACUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GCCCAUUG	36424
4968	6062	CGAAGUCC G	AGUCGUCU	14690	AGACGACU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GAACTUUG	36425
5019	6011	CAACUUGC G	ACGGAUUU	14691	AAAUCCGU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GCAAGUUG	36426
5022	6008	CUUGCGAC G	GAUUUCUA	14692	UAGAAUUC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GUCGCAAG	36427
5023	6007	UUGCGAGC G	AUUUCUAC	14693	GUAGAAAU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CGUCGCAA	36428
5033	5997	UUUCUACC G	AUACGUCC	14694	GGACGUUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GGUAGAAA	36429
5050	5980	AGGUCUCU G	GCGGCGAC	14695	GUGCCGCC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGAGACGU	36430
5051	5979	CGUCUCUG G	GCGGCACU	14696	AGUGCCGC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CAGAGACG	36431
5054	5976	CUCUGGCG G	GCACUAGC	14697	GCUAGUGC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GCCACAGAG	36432

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5076	5954	UCACUGCA G AUGGUUCU	14698	AGAACC AU GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	UGCAGUGA	36433
5079	5951	CUGCAGAU G GUUCUCCC	14699	GGGAGAAC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	AUCUGCAG	36434
5089	5941	UUCUCCCA G GAUCACUC	14700	GAGUGAUC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	UGGGAGAA	36435
5090	5940	UCUCCCA G AUACUCU	14701	AGAGUGAU GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	CUGGGAGA	36436
5117	5913	UCUGUUAU G AUGGUUGG	14702	CCAAACAU GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	AUAACAGA	36437
5120	5910	GUUAUAU G GUUGGUUU	14703	AAACCAAC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	AUCAUAAC	36438
5124	5906	UGAUGGUU G GUUUCACA	14704	UGUGAAAC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	AACCAUCA	36439
5140	5890	ACUCUCC G GCUGUCA	14705	UUGACAGC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	GGAAGAGU	36440
5165	5865	CUCGCCUU G AAGUUAGC	14706	GCUAACUU GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	AAGGCCAG	36441
5184	5846	CCAUUCA G AUAUGUCU	14707	AGACAUAU GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	UGAAAUGG	36442
5198	5832	UCUGUUGU G AUAACAAA	14708	UUUGUUAU GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	ACAACAGA	36443
5232	5798	UACAUAUU G GGUACUCC	14709	GGAGUACC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	AAAAUGUA	36444
5233	5797	ACAUUUUG G GUACUCCG	14710	CGGAGUAC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	CAAAAUGU	36445
5250	5780	UCUCGUAC G ACUUUCUG	14711	CAGAAAGU GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	GUACGAGA	36446
5266	5764	GUCAUAU G GACUACUU	14712	AAGUAGUC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	AUUGAACA	36447
5267	5763	UUCAAUUG G ACUACUUU	14713	AAAGUAGU GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	CAAUUGAA	36448
5293	5737	ACGUUGUA G GCAAAGGG	14714	CCCUUUGC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	UACAACGU	36449
5299	5731	UAGGCAAA G GGCRAUCU	14715	AGAUGGCC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	UUUGCCUA	36450
5300	5730	AGGCAAG G GCAAUCUC	14716	GAGAUUGC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	CUUUGCCU	36451
5321	5709	CCCAUUCU G ACACUAGG	14717	CCUAGUGU GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	AAGAUGGG	36452
5328	5702	UGACACUA G GCACAAAC	14718	GUUUGUGC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	UAGUGUCA	36453
5351	5679	GUUUCUCC G GUGUAUUC	14719	GAUACAC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	GGGAAGAC	36454
5363	5667	UAUUCUGU G AUCCAUUC	14720	GAUUGGAU GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	ACAGAAUA	36455
5379	5651	CGUAUCCA G AGUUCCAA	14721	UUGGAACU GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	UGGAUACG	36456
5392	5638	CCAGCUC G AUCCGGGA	14722	UCCCGGAU GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	GAGCUUGG	36457
5397	5633	CUCGAUCC G GGAUCUCA	14723	UGAGAUC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	GGAUCGAG	36458
5398	5632	UCGAUCCG G GAUCUCAG	14724	CUGAGAUC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	CGGAUCGA	36459
5399	5631	CGAUCCGG G AUUCAGU	14725	ACUGAGAU GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	CCGGAUCG	36460
5417	5613	UGUAAGUC G GAAUUGG	14726	CCAAUUTC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	GACUUAAC	36461
5418	5612	GUAGUCG G AAUUGGU	14727	ACCAAUUU GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	CGACUUAAC	36462
5424	5606	CGAAAUU G GUGAAUUG	14728	CAAUUCAC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	AAUUUCCG	36463
5427	5603	AAAUUGGU G AAUUGGAC	14729	GUCCAUAU GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	ACCAAUUU	36464
5432	5598	GGUGAAU G GACUCUGG	14730	CCAGAGUC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	AAUUCACC	36465
5433	5597	GUGAAUUG G ACUCUGGG	14731	CCCAGAGU GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	CAAUUCAC	36466
5439	5591	UGACUCU G GGAUGGA	14732	UCCAUUCC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	AGAGUCCA	36467
5440	5590	GGACUCUG G GAAUGGAU	14733	AUCCAUUC GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	CAGAGUCC	36468
5441	5589	GACUCUGG G AAGGGAUC	14734	GAUCCAUA GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	CCAGAGUC	36469
5445	5585	CUGGGAU G GAUCUGAA	14735	UUCAGAU GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	AUUCUCCAG	36470
5446	5584	UGGGAUG G AUUCGAAG	14736	CUUCAGAU GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	CAUUCUCCA	36471
5451	5579	AUGGAUCU G AAGUGCCU	14737	AGGCACUU GGAGGAAACUCCUUCUUAAGGACAUCGUCGCCGG	AGAUCCAU	36472

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5460	5570	AAUGGCU G GUGGGUG	14738	CACCCAC GGAGAAACUCCUUAAGGACAUCGUCGGG	AGGCACUU	36473
5463	5567	UGCCUGU G GGUUGGU	14739	AGCCACCC GGAGAAACUCCUUAAGGACAUCGUCGGG	ACCAGGCA	36474
5464	5566	GCUGGUG G GGUUGGU	14740	CAGCCACC GGAGAAACUCCUUAAGGACAUCGUCGGG	CACCAGGC	36475
5465	5565	CCUGGUG G GUGGUGU	14741	ACAGCCAC GGAGAAACUCCUUAAGGACAUCGUCGGG	CCACCAGG	36476
5468	5562	CGUGGGU G GCUUGAU	14742	AUGACAGC GGAGAAACUCCUUAAGGACAUCGUCGGG	ACCCACCC	36477
5477	5553	GCUGUCAU G AAUAUUG	14743	GCAUAUU GGAGAAACUCCUUAAGGACAUCGUCGGG	AUGACAGC	36478
5504	5526	CCUAGCUC G ACCUUUG	14744	ACAAAGGU GGAGAAACUCCUUAAGGACAUCGUCGGG	GAGCUAGG	36479
5513	5517	ACCUUGU G GAAAUUA	14745	UACAUUUC GGAGAAACUCCUUAAGGACAUCGUCGGG	ACAAAGGU	36480
5514	5516	CCUUUGU G AAUAUUA	14746	UUACAUUU GGAGAAACUCCUUAAGGACAUCGUCGGG	CACAAAGG	36481
5544	5486	UGCUAGCU G GGUUGGU	14747	CACCGACC GGAGAAACUCCUUAAGGACAUCGUCGGG	AGCUAGCA	36482
5545	5485	GCUAGCUG G GUGGGUGA	14748	UCACCGAC GGAGAAACUCCUUAAGGACAUCGUCGGG	CAGCUAGC	36483
5549	5481	GCUGGGUC G GUGAAUG	14749	CAUUCAC GGAGAAACUCCUUAAGGACAUCGUCGGG	GACCCAGC	36484
5552	5478	GGGUGGU G AAUUGAG	14750	GCUCAUUU GGAGAAACUCCUUAAGGACAUCGUCGGG	ACCGACCC	36485
5557	5473	GGUGAAU G AGCCUCA	14751	AUGAGGCU GGAGAAACUCCUUAAGGACAUCGUCGGG	AUUUCACC	36486
5573	5457	UCCAUCAC G AACAGGU	14752	AACUUGUU GGAGAAACUCCUUAAGGACAUCGUCGGG	GUGAUGGA	36487
5578	5452	CACGAACA G GUUGUAGU	14753	ACUACAAC GGAGAAACUCCUUAAGGACAUCGUCGGG	UGUUCUGU	36488
5589	5441	UGUAGUUC G GCACCCUG	14754	CAGGGUGC GGAGAAACUCCUUAAGGACAUCGUCGGG	GAACUACA	36489
5599	5431	CACCCUGU G AGGAGACA	14755	UGUCUCCU GGAGAAACUCCUUAAGGACAUCGUCGGG	ACAGGGUG	36490
5601	5429	CCUGUGA G GAGACAUC	14756	GAUGUCUC GGAGAAACUCCUUAAGGACAUCGUCGGG	UCACAGGG	36491
5602	5428	CTUGUGAG G AGACAUCA	14757	UGAUGUCU GGAGAAACUCCUUAAGGACAUCGUCGGG	CUCACAGG	36492
5604	5426	UGUGAGA G ACAUCAGC	14758	GCUGAUGU GGAGAAACUCCUUAAGGACAUCGUCGGG	UCCUCACA	36493
5617	5413	CAGCCUGU G GGUGAGG	14759	CCUCACCC GGAGAAACUCCUUAAGGACAUCGUCGGG	ACAGGCTG	36494
5618	5412	AGCCUGU G GUGAGGU	14760	ACCCUAC GGAGAAACUCCUUAAGGACAUCGUCGGG	CACAGGCU	36495
5621	5409	CUUGGGU G AGGUUAGC	14761	GCUACCCU GGAGAAACUCCUUAAGGACAUCGUCGGG	ACCCACAG	36496
5623	5407	GUGGGUGA G GUAUGCAU	14762	AUGCUACC GGAGAAACUCCUUAAGGACAUCGUCGGG	UCACCCAC	36497
5624	5406	UGGGUGAG G GUAGCAUG	14763	CAUGCUAC GGAGAAACUCCUUAAGGACAUCGUCGGG	CUCACCCA	36498
5632	5398	GGUAGCAU G ACACAUGA	14764	UCAUGUGU GGAGAAACUCCUUAAGGACAUCGUCGGG	AUGCUVAC	36499
5639	5391	UGACACAU G ACAUCAAC	14765	GUUGAUGU GGAGAAACUCCUUAAGGACAUCGUCGGG	AUGUGUCA	36500
5672	5358	UGUUCU G GCACUUGC	14766	GCAGUGCC GGAGAAACUCCUUAAGGACAUCGUCGGG	AGAGAACA	36501
5673	5357	GUUCUCUG G GCACUGG	14767	CGCAGUGC GGAGAAACUCCUUAAGGACAUCGUCGGG	CAGAGAAC	36502
5681	5349	GGCACUGC G GAUGUCUG	14768	CAGACAUC GGAGAAACUCCUUAAGGACAUCGUCGGG	GCAGUGCC	36503
5682	5348	GCACUGCG G AUGUCUGG	14769	CCAGACAU GGAGAAACUCCUUAAGGACAUCGUCGGG	CGCAGUGC	36504
5689	5341	GGAGUCU G GUACCGGA	14770	UCCGUAUC GGAGAAACUCCUUAAGGACAUCGUCGGG	AGACAUCC	36505
5695	5335	CUGGUACC G GAUGGCA	14771	UGCCCAUC GGAGAAACUCCUUAAGGACAUCGUCGGG	GGUACCCAG	36506
5696	5334	UGGUACCG G AUGGGCAG	14772	CUGCCCAU GGAGAAACUCCUUAAGGACAUCGUCGGG	CGGUACCA	36507
5699	5331	UACCGGAU G GCAGUCC	14773	GGACUGCC GGAGAAACUCCUUAAGGACAUCGUCGGG	AUCCGGUA	36508
5700	5330	ACCGGAUG G GCAGUCCU	14774	AGGACUGC GGAGAAACUCCUUAAGGACAUCGUCGGG	CAUCCGGU	36509
5744	5286	ACAACCU G GUUGGUGC	14775	GCACCAAC GGAGAAACUCCUUAAGGACAUCGUCGGG	AGGUUGU	36510
5748	5282	CCUGGUU G GUGCUAGC	14776	GCUAGCAC GGAGAAACUCCUUAAGGACAUCGUCGGG	AACCAGGG	36511
5759	5271	GCUAGCAC G GCUUUCU	14777	AGAACAGC GGAGAAACUCCUUAAGGACAUCGUCGGG	GUGCUAGC	36512

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5783	5247	CUGUUUUAU G GCCUCUUU	14778	AAAGAGGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUAAACAG	36513
5792	5238	GCUCUUU G AUGAUCUG	14779	CAGAUCAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAAGAGGC	36514
5795	5235	UCUUUGAU G AUCUGUGG	14780	CCACAGAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUCAAAGA	36515
5802	5228	UGAUCUGU G GCAGAAUC	14781	GAUUCUGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACAGAUCA	36516
5806	5224	CUGUGGCA G AAUCCUCC	14782	GGAGGAUU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGCCACAG	36517
5825	5205	GUUUACC G GCGCCGGG	14783	CCCGCGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GUUAAAC	36518
5831	5199	CGGCGCC G GGAUGGAG	14784	CUCCAUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GCGCGCGG	36519
5832	5198	CGGCGCG G GAUGGAGA	14785	UCUCAUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GCGCGCGG	36520
5833	5197	GCGCGCG G AUGGAGAU	14786	AUCCAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	C CGCGCGC	36521
5836	5194	GCGGGAU G GAGAUCCA	14787	UGAUCUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUCCCGCG	36522
5837	5193	CGGGGAU G AGAUCCAG	14788	CUGGAUCU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAUCCCGG	36523
5839	5191	GGGAUGA G AUCCAGUA	14789	UACUGGAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UCCAUC	36524
5852	5178	AGUACAGU G AUCUGUUU	14790	AAACAGAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACUGUACU	36525
5877	5153	GCAUCUA G GUUCGAAU	14791	AUUCGAAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGAGAUGC	36526
5882	5148	UCAGGUUC G AAUCCGGC	14792	GCCGGAUU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GAACCUGA	36527
5888	5142	UCGAUCC G GCUUGGAU	14793	AUCCAGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GGAUUCGA	36528
5892	5138	AUCCGGCU G GAUUGGC	14794	GCCAAUCC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGCCGGAU	36529
5893	5137	UCCGGCUG G GAUUGGCU	14795	AGCAAUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAGCCGGA	36530
5894	5136	CGGCGUG G AUUGGCU	14796	GAGCAAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CCAGCCGG	36531
5898	5132	CUGGGAU G GCUCAUCC	14797	GGAUGAGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAUCCAG	36532
5940	5090	UUAUGAU G AGCCGUG	14798	CAACGGCU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUACAUA	36533
5948	5082	GAGCCGUU G GCAUUAU	14799	AUAUAGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AACGGCUC	36534
5949	5081	AGCCGUUG G GCAUUAU	14800	CAUAUAGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAACGGCU	36535
5957	5073	GGCAUUAU G ACUCCAUU	14801	AAUGGAGU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUAUAGCC	36536
6006	5074	CCACUAU G GUGAGGUU	14802	AGGCUAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAUAGUGG	36537
6009	5021	CUAUUGU G AGCCUGAU	14803	AUCAGGCU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACCAUAG	36538
6015	5015	GUGAGCUU G AUGUCCA	14804	UGGAACAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGGCUCAC	36539
6026	5004	GUUCCAGU G GGAAGUC	14805	GACUCCC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACUGGAAC	36540
6027	5003	UUCAGUG G GGAAGUCC	14806	GGACUUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CACUGGAA	36541
6028	5002	UCCAGUGG G GAAGUCCA	14807	UGGACUUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CCACUGGA	36542
6029	5001	CCAGUGGG G AAGUCCAA	14808	UUGGACUU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CCCACUGG	36543
6044	4986	AAAGUCAC G GCCCGAU	14809	AUCGGGGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GUGACUUU	36544
6050	4980	AGGCGCC G AUUUUCC	14810	GGAGAAAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GGGCGCGU	36545
6063	4967	CUCUUAU G GUGUUUG	14811	CAAAACAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGAAGGAG	36546
6071	4959	GGUUUUU G AACACCC	14812	GGGUGUTU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAAAACAC	36547
6081	4949	ACACCCU G GUUUGUC	14813	GACGAAAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGGGGUGU	36548
6091	4939	UUUGUCU G GACUUUCU	14814	AGAACGUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGACGAAA	36549
6092	4938	UUCGUCU G AGUUUUU	14815	AAGAACGU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAGACGAA	36550
6114	4916	UUUGCCA G GUUCCACC	14816	GGUGGAAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGGCAAGA	36551
6173	4857	AAUUUCCA G GUUCCUCC	14817	GGAGGACC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGGAAAUU	36552

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6174	4856	AUUUCCAG G GUCCUCGG	14818	CGGAGGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CUGGAAAU	36553
6193	4837	ACAAAGUC G AUCCUCCU	14819	AGGAGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GACUUUGU	36554
6203	4827	UCCUCCUU G ACACUGCC	14820	GCACAGUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AAGGAGGA	36555
6219	4811	CCAGUAU G GGUCCAGG	14821	CCUGGACC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AUACUGGG	36556
6220	4810	CCAGUAU G GUCCAGGC	14822	GCCUGGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CAUACUGG	36557
6226	4804	UGGGUCCA G GCGGCCCU	14823	AGGGCCGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UGGACCCA	36558
6229	4801	GUCCAGGC G GCCUCUC	14824	GAGAGGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GCCUGGAC	36559
6251	4779	AUCAAAGC G GUCCUUU	14825	AAAGGAGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GCUUUGAU	36560
6274	4756	AUGCCAA G GUGUGGA	14826	UCCACACC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UUUGGCAU	36561
6275	4755	UGCCAAAG G GUGUGGA	14827	UCCACACC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UUUGGCAU	36562
6280	4750	AAGGGUGU G GAAACAC	14828	GUGUUUUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	ACACCCUU	36563
6281	4749	AGGGUGU G AAAACAC	14829	GGGUAUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CACACCCU	36564
6316	4714	UCCUGUU G AUAAUGC	14830	GCAGUAUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AAGCAGGA	36565
6326	4704	UAACUGCC G AGCAGCCC	14831	GGGTUGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GGCAGUUA	36566
6337	4693	CAGCCAC G AGUCAUGA	14832	UCAUGACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GUGGGCUG	36567
6344	4686	CGAGUCAU G AUCCUGUA	14833	UACAGGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AUGACUCG	36568
6353	4677	AUCCUGUA G ACGCCGGU	14834	ACCGCGGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UACAGGAU	36569
6359	4671	UAGACGCC G GUGGUCGU	14835	ACGACCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GGCGUCUA	36570
6362	4668	ACGCCGU G GUGGUCU	14836	GACACGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	ACCGGCGU	36571
6390	4640	ACUCCUU G GUGAGGGA	14837	UCCUCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AAAGGAGU	36572
6393	4637	CCUUUGU G AGGGAGUG	14838	CACUCCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	ACCAAAGG	36573
6395	4635	UUUGGUA G GGAGUGUC	14839	GACAUCC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UCACCAA	36574
6396	4634	UUUGGAG G GAGUGUC	14840	GGACACUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CUCACCAA	36575
6397	4633	UGGUGAG G AGUGUCC	14841	GGGACACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CCUCACCA	36576
6433	4597	UGUGUAU G GAGAGUUA	14842	UAACUUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AAUACACA	36577
6434	4596	GUGUAUUG G AGAGUAU	14843	AUAACUCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CAUACAC	36578
6436	4594	GUUAUGA G AGUAUCC	14844	GGUAUACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UCCAAUAC	36579
6459	4571	CAACUACU G AGGCAAG	14845	CUUGCCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AGUAGUUG	36580
6461	4569	ACUACUGA G GGCAGAU	14846	AUCUUGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UCAGUAGU	36581
6462	4568	CUACUGAG G GCAAGAU	14847	AAUCUUGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CUCAGUAG	36582
6467	4563	GAGGCCAA G AUUGCCCA	14848	UGGGCAAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UUGCCUUC	36583
6476	4554	AUUGCCCA G GGGUGUA	14849	UACACCCC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UGGGCAU	36584
6477	4553	UUGCCCA G GGGUGUAC	14850	GUACACC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CUGGGCAA	36585
6478	4552	UGCCCA G GGUUACG	14851	CGUACAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CCUGGGCA	36586
6479	4551	GCCAGG G GUGUACG	14852	GCGUACAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CCCUGGGC	36587
6497	4533	CUAAUCG G AGACAGAC	14853	GUCUGUCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GCGAUUAG	36588
6499	4531	AAUCGGA G ACAGACCA	14854	UGGUUCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UCGCGAUU	36589
6503	4527	GGAGACA G ACCAUTUCU	14855	AGAAUGGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UGUCUCGC	36590
6512	4518	ACCAUUCU G AGCAUCCA	14856	UGGAUGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AGAAUGGU	36591
6531	4499	UCUCCAA G GUGUCCU	14857	AGGAGCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UUGGAAGA	36592

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6540	4490	GUGUCCU G GAUCAUUC	14858	GAUGAUC GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AGGAGCAC	36593
6541	4489	UGUCCUG G AUCAUUC	14859	UGAUGAU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAGGAGCA	36594
6551	4479	UCAUUCU G AGCUGAA	14860	UUCAGCU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AUGAAUGA	36595
6556	4474	CAUGAGU G GAAGUUC	14861	GAACUUC GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AGCUAUG	36596
6557	4473	AUGAGUG G AAGUUUC	14862	GGAAACU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAGCUCAU	36597
6600	4430	UUUCGUC G AGCCUGA	14863	UACAGGU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GAGCGAAA	36598
6629	4401	CUUCCCA G GAAUGUC	14864	GACAUUC GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UGGGAAAAG	36599
6630	4400	UUUCCAG G AAUUGUC	14865	GGACAUU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CUGGGAAA	36600
6666	4364	UAUCUGU G AUUCCCA	14866	UGGGAUU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AAACAGAU	36601
6675	4355	AUUCCCA G AAUACAG	14867	CGUGAUU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UGGGAAAU	36602
6683	4347	GAAUCCG G AAGCAGC	14868	GUUGAUU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GUGAUUUC	36603
6698	4332	GCAACAU G AGCCCGC	14869	GCGGGCU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AUGUUUUC	36604
6707	4323	AGCCCGC G AUAGUCAU	14870	AUGACU AU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GCGGGGCU	36605
6717	4313	UAGUCAU G GAAUGGC	14871	GGCCAUU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AAUGACUA	36606
6718	4312	AGUCAU G AAGGCCA	14872	UGGCCAU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAAUGACU	36607
6722	4308	AUUGAAU G GCCAUGA	14873	UCCAUGC GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AUUCCAAU	36608
6728	4302	AUGGCCU G GAGUCAU	14874	AUGACUC GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AUGGCCAU	36609
6729	4301	UGGCCUG G AGUCAU	14875	CAUUGAU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAUGGCCA	36610
6758	4272	AGCCUCC G ACAGUCC	14876	GCCAUUG GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GGAGGGCU	36611
6761	4269	CCUGGAC G AUGGAAA	14877	UUUGCCU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GUCGGAGG	36612
6764	4266	CCGAGAU G GCRAACU	14878	AUGUUUG GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AUCGUCGG	36613
6775	4255	AAACAUU G GCCGACG	14879	CUGUCGC GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UAAUGUUU	36614
6779	4251	AUAGGCC G ACAGCUG	14880	ACAGCUG GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GGCCUAAU	36615
6803	4227	UCAGUUG G GGCAUCC	14881	GGAUGGC GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GCAACUGA	36616
6804	4226	CAGUUGG G GCCAUCC	14882	CGAUGC GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CGCAACUG	36617
6820	4210	GCGUUAC G GUUGGGAU	14883	AUCCCAAC GGAGGAAACUCCUUAAGGACAUCGUCCGGG	GUAAAACG	36618
6824	4206	UACGGUU G GGAUCACA	14884	UGUGAUC GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AACCGUAA	36619
6825	4205	UACGGUU G GGAUCAU	14885	AUGUAUC GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAACCGUA	36620
6826	4204	ACGGUUG G AUCAUG	14886	CAUGAU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CCAACCGU	36621
6853	4177	AGCAGAA G GAUCAUG	14887	CCAUGAU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UUGCUGCU	36622
6854	4176	GCAGCAG G AUCAUGG	14888	CCCAUGAU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CUUGCUGC	36623
6860	4170	AGGAUCAU G GGUUGAA	14889	UUCAACC GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AUGAUCCU	36624
6861	4169	GGAUCAU G GGUUGAA	14890	UUUCAAC GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CAUGAUCC	36625
6862	4168	GAUCAUG G GUUGAAA	14891	UUUCAAC GGAGGAAACUCCUUAAGGACAUCGUCCGGG	CCAUGAUC	36626
6866	4164	AUGGCUU G AAAUGUC	14892	GGACUUU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AACCCCAU	36627
6879	4151	GUCCUGU G AGCUAGA	14893	UCUAGCU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AACAGGAC	36628
6881	4149	CCUGUUG G GCUAGAGC	14894	GCUCUAG GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UCAACAGG	36629
6886	4144	UGAGGCU G AGCCAAGC	14895	GUUGGCU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UAGCCUCA	36630
6901	4129	GCAUAGCA G ACUUGCUC	14896	GAGCAUG GGAGGAAACUCCUUAAGGACAUCGUCCGGG	UGCUAUGC	36631
6944	4086	UUUCCCU G AUCAAGCU	14897	AGCUUGAU GGAGGAAACUCCUUAAGGACAUCGUCCGGG	AGGAGAA	36632

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6962	4068	CTUAUCC G ACCAUCAA	14898	UUGAUGGU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	GGAAUAGG	36633
6994	4036	CHAUCCA G AUUCAAGC	14899	GUUUAU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	UGGAUGUG	36634
7013	4017	CUCAGCC G GUGUUG	14900	CUAACACC	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	GGGCUAG	36635
7014	4016	UCAGCCG G GUGUAGC	14901	GUUAACAC	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	CGGGCUGA	36636
7024	4006	UGUAGCA G GGUUAGCA	14902	UGCUAGCC	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	UGCUAACA	36637
7025	4005	GUUAGCAG G GCUUAGCAG	14903	CUUGUAGC	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	CUUGUAAC	36638
7035	3995	CUAGCAGC G GAACAACC	14904	GGUUGUUC	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	GCUGCUAG	36639
7036	3994	UAGCAGG G AACAAACA	14905	UGGUUGUU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	CGCUGCUA	36640
7050	3980	CCACGUU G AUGUCGUU	14906	AACGACAU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	AAACGUGG	36641
7061	3969	GUCGUUG G AAUGUUAU	14907	AUAACAUU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	ACAACGAC	36642
7070	3960	AAUGUUAU G GCUUCUCAG	14908	CUAGAGAC	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	AUAACAUU	36643
7101	3929	CCGCCAGU G AAUUAAC	14909	GUUGAAUU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	ACUGGCGG	36644
7116	3914	ACACAUA G GGAUCUCC	14910	GGAGAUCC	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	UGAUGUGU	36645
7117	3913	CACAUCAG G GAUCUCCC	14911	GGGAGAU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	CUGAUGUG	36646
7118	3912	ACAUCAGG G AUCUCCCA	14912	UGGGAGAU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	CTUGAUGU	36647
7127	3903	AUCUCCCA G AGCAGAAU	14913	AUUCUUGU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	UGGGAGAU	36648
7132	3898	CCAGAGCA G AAUUGGC	14914	GCCAAAUU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	UGCUCUGG	36649
7138	3892	CAGAAUU G GCGGGCAU	14915	AUGCCCGC	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	AAAUUGUG	36650
7141	3889	AAUUGGC G GCAUCGU	14916	ACGAUGCC	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	GCCAAAUU	36651
7142	3888	AUUUGGC G GCAUCGUG	14917	CACGAUGC	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	CGCCAAAU	36652
7150	3880	GGCAUCGU G AUAAGCCA	14918	UGGCUUAU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	ACGAUGCC	36653
7162	3868	AGCCAUU G AAAGNAAA	14919	UUUCUUU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	AAAUUGGU	36654
7166	3864	AUUUGAA G AAACACAGC	14920	GCUGUUU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	UUUCAAAU	36655
7201	3829	GUUCUCCU G GUUGGUCC	14921	GGACCAAC	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	AGGAGAAC	36656
7205	3825	UUCUGGUU G GUCCAUCU	14922	AGAUUGAC	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	AACCGAGA	36657
7220	3810	CUCGCUU G AGAACGCA	14923	UCGUUUU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	AAAGCGAG	36658
7222	3808	CGCUUGA G AAACGAUG	14924	CAUCGUUU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	UCAAAGAU	36659
7227	3803	UGAGAAC G AUGCCACC	14925	GGUGGCAU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	GUUUCUCA	36660
7245	3785	UAAACAU G GUUGUAUC	14926	GAUACAAC	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	AGUGUUUA	36661
7256	3774	UGUAUCUU G AAGGUCGC	14927	GCACCUU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	AAGAUAACA	36662
7259	3771	AUCUUGAA G GUCGCCAU	14928	AUGCGGAC	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	UUAAGAU	36663
7268	3762	GUCGCCAU G AGCGCCAA	14929	UUGCGGU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	AUGGCGAC	36664
7296	3734	CUCCUCC G AAUUAAGU	14930	AUCUAUU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	GGGAGGAG	36665
7302	3728	CGGAUUA G AUUCUGGC	14931	CGCAGAUU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	UAAUUCGG	36666
7310	3720	GAUUCUG G AAAGCUGC	14932	GCAGCUU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	GCAGAAUC	36667
7328	3702	CCACCAA G AUGACAU	14933	UAUUGAU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	UUGGUGGG	36668
7331	3699	ACCAAGU G ACAUAGCG	14934	CGCUAUGU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	AUCUUGGU	36669
7375	3655	AAACACCA G GACUAGCA	14935	UGCUAGUC	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	UGGUGUUU	36670
7376	3654	AACACCA G ACUAGCAG	14936	CUUGUAGU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	CUGGUGUU	36671
7384	3646	GACUAGCA G AGCAUACA	14937	UGAUUGCU	GGAGAAACUCCCUUUAAGGACAUCGUCCGGG	UGCUAGUC	36672

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7401	3629	GUUAGGU G GCAUGUG	14938	CAGCAUGC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGCUAUAC	36673
7409	3621	GGCAUGGU G AUUUGGC	14939	GCCAAAGU GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGCAUGCC	36674
7415	3615	CUGAUCUU G GUGUCCA	14940	UGGACAGC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAGAUCAG	36675
7432	3598	CCUUGC G AAGGACCU	14941	AGGUCCUU GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GCAAGAGG	36676
7435	3595	UUUGGAA G GACUCCU	14942	AGGAGGUC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UUUGCAAG	36677
7436	3594	UUUGGAA G ACCUCCU	14943	CAGAGGUC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUUCGCAA	36678
7444	3586	GACUCCU G GUGGCCA	14944	UGGCCACC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGGAGGUC	36679
7445	3585	ACUCCUG G GUGGCCA	14945	UUGGCCAC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAGGAGGU	36680
7448	3582	UCCUGGU G GCAAGAA	14946	UUCUUGGC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACCCAGGA	36681
7454	3576	GUGGCCAA G AACACGAC	14947	GUCUGUU GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UUGGCCAC	36682
7460	3570	AGAACAC G ACCAGAAG	14948	CUUCUGGU GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GUGUUCUU	36683
7465	3565	CACGACCA G AAGGCCA	14949	UGGCCUU GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGGUCGUG	36684
7468	3562	GACGAGG G GCCAACU	14950	AGUUGGC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UUCUGGUC	36685
7477	3553	GCCCAACU G AAAAGGGU	14951	ACCCUUU GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGUUGGC	36686
7482	3548	ACUGAAA G GGUCAAUC	14952	GAUUGACC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UUUUCAGU	36687
7483	3547	CUGAAAG G GUCAAUC	14953	UGAUUGAC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUUUCAG	36688
7518	3512	UCACUUG G ACUGCACG	14954	CGUGCAGU GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACAAUGGA	36689
7526	3504	GACUGCAC G AGGGUCU	14955	AAGACCU GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GUGCAGUC	36690
7528	3502	UUGCAGA G GGUUUUU	14956	AAAAGAC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UCGUGCAG	36691
7529	3501	UGCACGAG G GGUUUUU	14957	GAAAGAC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUCGUGCA	36692
7551	3479	GUCUCUG G GUCUGAUC	14958	GAUCAGAC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACAGAGAC	36693
7556	3474	UGUGGUCU G AUCUCCAU	14959	AUGGAGU GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGACCACA	36694
7591	3439	GUAGUUU G GUAGCGCA	14960	UGCGUAC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAACUGAC	36695
7602	3428	AGGCGAGU G GUGGUAG	14961	CUUACCAC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACUGCGCU	36696
7605	3425	GCAGUGU G GUAAGGUG	14962	CACCUUAC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACCACUGC	36697
7610	3420	GGUGGUA G GUGCAGCU	14963	AGCUGCAC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UUACCACC	36698
7658	3372	CUCUCUG G GUGGUGCG	14964	CGCACAC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACAGAGAG	36699
7661	3369	UCUGUGU G GUGCGAGU	14965	ACUCGCAC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACCACAGA	36700
7666	3364	GGUGGUGC G AGUGGCAG	14966	CUGCCACU GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GCACCACC	36701
7670	3360	GUGCGAGU G GCAGGUCC	14967	GGACUUGC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACUCGCAC	36702
7674	3356	GAGUGGCA G GUCCACGG	14968	CCGUGGAC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGCCACUC	36703
7681	3349	AGGUCCAC G GUGUCCGC	14969	GCGCACAC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GUGGACCU	36704
7702	3328	CUCACUCA G GGUGACCG	14970	CGGUACC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGAGUGAG	36705
7703	3327	UCACUCAG G GUGACCGU	14971	ACGUGCAC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUGAGUGA	36706
7706	3324	CUCAGGU G ACCGUAGU	14972	ACUACGGU GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACCCUGAG	36707
7719	3311	UAGUCCU G GGCAGUAA	14973	UUACUGCC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGGAACUA	36708
7720	3310	AGUCCUG G GCAGUAAU	14974	AUUAUGC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAGGAACU	36709
7730	3300	CAGUAAUC G AAGUCAU	14975	AUUGACUU GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GAUUAUG	36710
7747	3283	CUCUACC G GCUUCGU	14976	ACGAAGGC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GGGUAGAG	36711
7761	3269	GUUCCAU G GGCCUUG	14977	CCAGGCC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUGGGACG	36712

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7762	3268	GUCCAU G	GCCUGGU	14978	ACCAGGC	GGAGAAACUCCUUAAGGACAUCGUCGGG	CAUGGAC	36713
7768	3262	UGGOCU G	GUUUGUG	14979	CACAAAC	GGAGAAACUCCUUAAGGACAUCGUCGGG	AGGGCCA	36714
7788	3242	UGUCCCA G	GUCUCCGA	14980	UCGGAGC	GGAGAAACUCCUUAAGGACAUCGUCGGG	UGGUACA	36715
7795	3235	AGGUCC G	AUUGUGAU	14981	AUCACAA	GGAGAAACUCCUUAAGGACAUCGUCGGG	GGAGACU	36716
7801	3229	CCGAUUG G	AUUGCUU	14982	GGAGCAA	UCCUUAAGGACAUCGUCGGG	ACAUCGG	36717
7812	3218	UGUUGU G	GUCCGCC	14983	GGCGGAC	GGAGAAACUCCUUAAGGACAUCGUCGGG	ACGAAGCA	36718
7826	3204	CCGAGUG G	ACUGUAU	14984	AUACCAU	UCCUUAAGGACAUCGUCGGG	ACATUGC	36719
7830	3200	GUGUACU G	GUUUAUC	14985	GAUUAUC	UCCUUAAGGACAUCGUCGGG	AGUCACAC	36720
7852	3178	ACUCUAA G	GAUCCAU	14986	AUGGAUC	UCCUUAAGGACAUCGUCGGG	UUGAGAGU	36721
7853	3177	CUCUACG G	AUUCCAU	14987	GAUGAAU	UCCUUAAGGACAUCGUCGGG	CUUGAGAG	36722
7871	3159	CCCAACA G	GUUGCGU	14988	ACGAUAC	UCCUUAAGGACAUCGUCGGG	UUGUGGGG	36723
7884	3146	CGGUCUA G	GCCAGUA	14989	UACGUGC	GGAGAAACUCCUUAAGGACAUCGUCGGG	UGAGACGC	36724
7896	3134	ACGUACU G	AUUGACU	14990	AGUCAAU	UCCUUAAGGACAUCGUCGGG	AUGUACGU	36725
7901	3129	CAUAAU G	ACUUCAC	14991	GGUGAAU	UCCUUAAGGACAUCGUCGGG	AAAUCAUG	36726
7912	3118	UUCACCA G	AACUGCC	14992	GGGCAU	UCCUUAAGGACAUCGUCGGG	UGGGUGAA	36727
7943	3087	GUACAUU G	AGCUGCU	14993	AGCAGGU	GGAGAAACUCCUUAAGGACAUCGUCGGG	AAUGAUAC	36728
7964	3066	AUCCAUU G	GACAGGUC	14994	GACCGUC	GGAGAAACUCCUUAAGGACAUCGUCGGG	UAUUGGAU	36729
7965	3065	UCCAAU G	ACAGGUA	14995	UGACCGU	UCCUUAAGGACAUCGUCGGG	CUAUUGGA	36730
7969	3061	AUAGACA G	GUACUGU	14996	ACAGUAC	UCCUUAAGGACAUCGUCGGG	UGUCCUUA	36731
7978	3052	GUACUGU G	GAUCCCA	14997	UGGCGAU	GGAGAAACUCCUUAAGGACAUCGUCGGG	ACAGUAC	36732
7979	3051	UACUGUG G	AUCGCCA	14998	UUGCGAU	GGAGAAACUCCUUAAGGACAUCGUCGGG	CACAGUA	36733
7997	3033	UUGUUCU G	ACAGCCG	14999	ACGCGU	GGAGAAACUCCUUAAGGACAUCGUCGGG	AAGAACA	36734
8012	3018	GUUCCAU G	AUCUUGA	15000	UCGAAGU	GGAGAAACUCCUUAAGGACAUCGUCGGG	AUUGGAAC	36735
8019	3011	UGAUCU G	AGUCACU	15001	AUGUACU	UCCUUAAGGACAUCGUCGGG	GAAGAUCA	36736
8048	2982	CUCUCU G	ACCUUCAG	15002	CUGAAGU	GGAGAAACUCCUUAAGGACAUCGUCGGG	AGAGAGAC	36737
8056	2974	GACUUA G	GAACUCC	15003	GGUUGUC	GGAGAAACUCCUUAAGGACAUCGUCGGG	UGAAGGUC	36738
8057	2973	ACUUCAG G	AACAUCC	15004	CGGAUUG	GGAGAAACUCCUUAAGGACAUCGUCGGG	CUGAAGGU	36739
8065	2965	GAACUCC G	AGUGCUG	15005	CCAGCAU	GGAGAAACUCCUUAAGGACAUCGUCGGG	GGAUGUUC	36740
8072	2958	CGAGUGU G	GUAGACC	15006	GGUCUCAC	GGAGAAACUCCUUAAGGACAUCGUCGGG	AGCAGUC	36741
8075	2955	GUGUGGU G	AGACCAA	15007	UUUGGUC	GGAGAAACUCCUUAAGGACAUCGUCGGG	ACCAGCAC	36742
8077	2953	GUGUGGA G	ACCAAUC	15008	GAUUGGU	GGAGAAACUCCUUAAGGACAUCGUCGGG	UTCACGAC	36743
8119	2911	CCAGGCG G	AUUCUGAG	15009	CUCAGAU	GGAGAAACUCCUUAAGGACAUCGUCGGG	GCGUUGG	36744
8125	2905	GCAUUCU G	AGUGGAC	15010	GUCCGACU	GGAGAAACUCCUUAAGGACAUCGUCGGG	AGAUCCG	36745
8130	2900	UCUGAGU G	GAUUCUCC	15011	GGAAUUG	GGAGAAACUCCUUAAGGACAUCGUCGGG	GACTUCAG	36746
8131	2899	CUGAGUC G	ACAUUCU	15012	AGGAUUG	GGAGAAACUCCUUAAGGACAUCGUCGGG	CGACUCAG	36747
8141	2889	CAUUCUU G	GUUCUGG	15013	CCGGAGAC	GGAGAAACUCCUUAAGGACAUCGUCGGG	AAGGAUUG	36748
8148	2882	UGGUCUC G	GACCAUA	15014	UGAUGGUC	GGAGAAACUCCUUAAGGACAUCGUCGGG	GGAGACCA	36749
8149	2881	GGUUCUG G	ACCAUAA	15015	UUGAUGGU	GGAGAAACUCCUUAAGGACAUCGUCGGG	CGGAGACC	36750
8165	2865	ACCACAA G	GUGUUGU	15016	AACAACAC	GGAGAAACUCCUUAAGGACAUCGUCGGG	UUUGUGGU	36751
8174	2856	GUGUUGU G	GCGAGUUC	15017	GAACUCGC	GGAGAAACUCCUUAAGGACAUCGUCGGG	AACAACAC	36752

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8177	2853	UUUUGGC G AGUUCUGG	15018	CCAGAACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GCCAACAA	36753
8184	2846	CGAGUUCU G GUGCAAAU	15019	AUUUGCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGAACTUCG	36754
8210	2820	UUUCCCCA G GCCUUCCA	15020	UGGAAGGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UGGGGAAA	36755
8240	2790	UUUUCGCU G GUGGCGGU	15021	ACCGCCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG ACGGAAAA	36756
8243	2787	UCCGUGGU G GCGGUGAG	15022	CUCACGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG ACCACGGA	36757
8246	2784	GUGGUGGC G GUGAGGCG	15023	GCCTCCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GCCACCCAC	36758
8249	2781	GUGGCGGU G AGGCGUUU	15024	AAACGCCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG ACCGCCAC	36759
8251	2779	GGCGGUGA G GCGUUUAG	15025	CUAAACGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UCACCGCC	36760
8259	2771	GGCGUUUA G GUGCUGAC	15026	GUCAGCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UAAACGCC	36761
8265	2765	UAGGUGCU G ACUUGUAC	15027	GUACAAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGCACCUA	36762
8297	2733	UCAACCCAC G ACACUAAG	15028	CUUAGUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GUGGUUGA	36763
8305	2725	GACACUAA G GUCCACAC	15029	GUGUGGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UUAGUGUC	36764
8329	2701	CUUCAAA G AGUGUUCA	15030	UGAACACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UUUUGAAG	36765
8365	2665	CCACAUUU G AUGCUCCA	15031	UGGAGCAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AAUUGUGG	36766
8378	2652	UCCAGUCU G GAACUGA	15032	UCAGUUDC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGACUGGA	36767
8379	2651	CCAGUCUG G AAACUGAU	15033	AUCAGUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CAGACTUGG	36768
8385	2645	UGGAAACU G AUCGUAGA	15034	UCUACGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGUUUCCA	36769
8392	2638	UGAUCGUA G ACCGCACA	15035	UGUGCGGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UACGAUCA	36770
8413	2617	UUCCUUU G AGCUUUU	15036	AGAAAGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AUAAGGAA	36771
8422	2608	AGCUUUCU G AAUGAUCU	15037	AGAUCAUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGAAAGCU	36772
8426	2604	UUCUGAAU G AUCUUGGC	15038	GCCAAGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AUTUCAGAA	36773
8432	2598	AUGAUCUU G GCUAGGCC	15039	GGCCUAGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AAGAUCAU	36774
8437	2593	CUUGGCUA G GCCUUGUG	15040	CACAAGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UAGCCNAG	36775
8445	2585	GGCUUGU G GCGUUUCA	15041	UGAAACGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG ACAAGGCC	36776
8454	2576	GCGUUUCA G GUAUAUAC	15042	GUUAUACC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UGAAACGC	36777
8455	2575	CGUUUCAG G GUAAUACU	15043	AGUAUUAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CUGAAACG	36778
8470	2560	CUUGUACC G GUCCAUCU	15044	GGAUGGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GGUACNAG	36779
8501	2529	UUGUGUAU G AACACUCC	15045	GGAGUUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AUACACAA	36780
8533	2497	CUUUGCC G GCUGAUGU	15046	ACAUCAGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GGCAAGAG	36781
8537	2493	UGCGGCU G AUGUCUAU	15047	AUAGACAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGCCGGCA	36782
8546	2484	AUGUCUAU G GCACACCC	15048	GGUGUGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AUAGACAU	36783
8576	2454	ACGUUAC G GAGAGGAA	15049	UUUCUUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GUGAACGU	36784
8577	2453	GCUUCCG G AGAGGAAG	15050	CUUCUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CGUGAACG	36785
8579	2451	UUCACGGA G AGGAAGAG	15051	CUCUUCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UCCGUGAA	36786
8581	2449	CACGGAGA G GAAGAGCA	15052	UGUCUUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UCUCGUG	36787
8582	2448	ACGGAGAG G AAGAGCAG	15053	CUGUCUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CUCUCUGU	36788
8585	2445	GAGAGGAA G AGCAGAAC	15054	GUUCUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UUCUCUCU	36789
8590	2440	GAAGAGCA G AACUCCUC	15055	GAGGAGUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UGCUCUUC	36790
8606	2424	CCAACUGC G AGAAGCU	15056	ACGUUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GCAGUUGG	36791
8608	2422	AACUGCGA G AAACGUGA	15057	UCACGUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UCGCAGUU	36792

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8615	2415	AGAAACGU G	AGAGCUAU	15058	AUAGCUCU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	ACGUUUCU	36793
8617	2413	AAACGUGA G	AGCUAUGG	15059	CAUAVGCU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	UCACGUUU	36794
8624	2406	AGAGCUAU G	GACCUAUC	15060	GAUAGGCU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	AUAGCUCU	36795
8625	2405	GAGCUAUG G	ACCUAUA	15061	UGAUAGGU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	CAUAGCUC	36796
8635	2395	CCUAUCAC G	AGCAUUGA	15062	UCAUUGCU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	GUGAUAGG	36797
8642	2388	CGAGCAU G	AUGCCCAU	15063	AUGGGCAU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	AAUGCUCG	36798
8659	2371	CCACAACA G	GAGAGCCC	15064	GGGCUCUC	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	UGUUGUGG	36799
8660	2370	CACAACAG G	AGAGCCCC	15065	GGGGCUCU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	CUGUUGUG	36800
8662	2368	CAACAGGA G	AGCCCCCA	15066	UGGGGGCU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	UCCUGUUG	36801
8690	2340	GUUAUCCA G	GACAUGCC	15067	GGCAUGUC	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	UGGAUAAC	36802
8691	2339	UUAUCCAG G	ACAUGCCU	15068	AGGCAUGU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	CUGGAUAA	36803
8702	2328	AUGCCUCC G	AACAGUGA	15069	UCACUGUU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	GGAGGCAU	36804
8709	2321	CGAACAGU G	AGCGGAAU	15070	AUUCGCGU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	ACUGUUCG	36805
8713	2317	CAGUGAGC G	GAUUGCUC	15071	GAGCAUUC	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	GCUCACUG	36806
8714	2316	AGUGAGCG G	AAUGCUCC	15072	GGAGCAUU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	CGCUCACU	36807
8726	2304	GCUCUCC G	AACAUUG	15073	CAAGUGUU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	GGAGGAGC	36808
8734	2296	GAACACUU G	AUGGACAG	15074	CUGUCCAU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	AAGUUGUC	36809
8737	2293	CACUUGAU G	GACAGCCU	15075	AGGUCUGC	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	AUCAAGUG	36810
8738	2292	ACUUGAUG G	ACAGCCUU	15076	AAGGCGUU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	CAUCAAGU	36811
8754	2276	UCCCAACU G	AGGUGAAC	15077	GUUCACCU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	AGUUGGGA	36812
8756	2274	CCAACUGA G	GUGAACAC	15078	GUGUUCAC	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	ACUUGUUG	36813
8759	2271	ACUGAGGU G	AACACCCC	15079	GGGUGUUU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	ACUCUAGU	36814
8775	2255	CUCCAACU G	AUCCAAG	15080	CUUUGGAU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	AGUUGGAG	36815
8803	2227	GUCUCCUA G	AGCGGCUA	15081	UAGCCGCU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	UAGGAGAC	36816
8807	2223	CCUAGAGC G	GCUAGUCU	15082	AGACUAGC	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	GCUCUAGG	36817
8828	2202	GUCCUUU G	AGGGUGGU	15083	ACCACCCU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	AAAGGAGC	36818
8830	2200	UCCUUUGA G	GEUGGUUG	15084	CAACACC	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	UCAAAGGA	36819
8831	2199	CCUUUGAG G	GUGGUUGU	15085	ACAACCAC	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	CUCAAAAG	36820
8834	2196	UUGAGGGU G	GUUGUAAA	15086	UUUACAAC	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	ACCUCUAA	36821
8843	2187	GUUGUAAA G	GCUUUGCC	15087	GGCAAAGC	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	UUUACAAC	36822
8865	2165	UGCUUCCA G	ACUUGUGC	15088	GCACAAGU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	UGGAAGCA	36823
8878	2152	GUGCCAAU G	GUGAUUGA	15089	UCAUUCAC	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	AUUGGCAC	36824
8881	2149	CCAAUGGU G	AUTGAUCU	15090	AGAUCAAU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	ACCAUUGG	36825
8885	2145	UGGUGAUU G	AUCUGUUG	15091	CAACAGAU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	AAUCACCA	36826
8919	2111	CUAUGUAV G	AGUCUCCA	15092	UGGAGACU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	AUACAUAG	36827
8930	2100	UCUCCAAA G	GEUGGUUC	15093	GAACCCAC	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	UUUGGAGA	36828
8931	2099	CUCCAAAG G	GUGGUUCC	15094	GGAAACCAC	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	CUUUGGAG	36829
8934	2096	CAAGAGGU G	GUUCCAAU	15095	AUUGGAAC	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	ACCCUUUG	36830
8950	2080	UUCAAUCA G	GACCUUAG	15096	CUAAGGUC	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	UGAUUGAA	36831
8951	2079	UCAAUAGG G	ACCUUAGC	15097	GCUAAGGU	GGAGGAAACUCCCUUCAAAGGACAUCGUC'CGGG	CUGAUUGA	36832

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8963	2067	UUAGGUU G GCCGUGG	15098	GCCACGGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AACGCUAA	36833
8969	2061	UUGGCGU G GCCACUGA	15099	UCAGUGGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG ACGGCCAA	36834
8976	2054	UGGCGCU G AACAAAA	15100	UUUGUUU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AGUGGCCA	36835
8985	2045	AAACAAA G GGUUGACA	15101	UGUCAACC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UUUUGUUU	36836
8986	2044	AACAAAG G GUUGACAG	15102	CUGUCAAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CUUUUGUU	36837
8990	2040	AAAGGUU G ACAGUGAC	15103	GUCACUGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AACCCUUU	36838
8996	2034	UUGACAGU G ACCAAUCU	15104	AGAUUGGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG ACUGUCA	36839
9012	2018	UGCCACU G GCGUUGG	15105	CUAACGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AGUGGGCA	36840
9019	2011	UGGCGUUA G GUCGUUA	15106	UGAACGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UAACGCCA	36841
9030	2000	CGUCAAU G AAGCCACU	15107	AGUGGCUU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AUUGAACG	36842
9039	1991	AAGCCACU G ACAGAUUA	15108	UAUCUCGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AGUGGCUU	36843
9042	1988	CCACUGAC G AGAUAGGA	15109	UCCUAUCU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GUCAGUGG	36844
9044	1986	ACUGACGA G AUAGGAAC	15110	GUUCCUUA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UCGUCAGU	36845
9048	1982	ACGGAUA G GAACUUUG	15111	CAAAGUUC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UAUCUCGU	36846
9049	1981	CGAGUAG G AACUUUGC	15112	GCAAAGUU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CUAUCUCG	36847
9060	1970	CUUGCAA G GUCCAUC	15113	GGAUGGAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UUGCAAAG	36848
9106	1924	AGUGCGU G ACCUGUGU	15114	ACACAGGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG ACGGCACU	36849
9119	1911	GUGUCGC G GGAGUCCC	15115	GGGACUCC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GCAGACAC	36850
9120	1910	UGUCGCG G GAGUCCCA	15116	UUGGACUC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CGCAGACA	36851
9121	1909	GUCUGCG G AGUCCCAA	15117	UUGGGACU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CCGCAGAC	36852
9130	1900	AGUCCAA G AAACUUGA	15118	UCAAGUUU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UUGGGACU	36853
9137	1893	AGAACTU G AAAGCCUU	15119	AAGGCUUU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AAGUUUCU	36854
9147	1883	AGCCUUU G AACAGACG	15120	CGUCUGUU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AAAGGCUU	36855
9152	1878	UUUGACA G ACGCCAU	15121	UAUGGCGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UGUUCAAA	36856
9161	1869	ACGCCAU G GUUGUUC	15122	GGAACAAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UAUGGCGU	36857
9211	1819	CUUCAAU G ACCCGACG	15123	CGUCGGGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AUUGAAG	36858
9216	1814	AAUGACC G ACGUCAAC	15124	GUUGACGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GGGUCAUU	36859
9227	1803	GUGAACU G ACAGUGUU	15125	AACACUGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AAGUUGAC	36860
9240	1790	UGUUGCU G AAAUUUC	15126	GGAUUUU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AAGCAACA	36861
9252	1778	AUUCACA G GAAUGGU	15127	AGCCAUUC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UGUUGAAU	36862
9253	1777	UUCACAG G AAUGGCU	15128	GAGCCAUU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CUGUGGAA	36863
9257	1773	ACAGAAU G GCUCACG	15129	GCUGGAGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AUUCCUGU	36864
9274	1756	CAAAGCU G AUGCAGAG	15130	CUCUGCAU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AAGCUUUG	36865
9280	1750	UUGAUGA G AGUCCUU	15131	AGGGAGCU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UGCAUCA	36866
9294	1736	CCUCUUG G AGCCCAA	15132	AUUGGGCU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG ACAAGAGG	36867
9312	1718	CUAUCACA G ACUGCUUC	15133	GAAGCAGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UGUGAUAG	36868
9323	1707	UGGUCGU G GCGUGUGG	15134	CCACAGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG ACGAAGCA	36869
9330	1700	UGGCGUG G GUUCCUCA	15135	UGAGGAAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG ACAGGCCA	36870
9393	1637	UGCUCAA G GGAGUUG	15136	CAACCTCC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UUGGAGCA	36871
9394	1636	GCUCAAG G GAGGUAGA	15137	UCAACCTC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CUUGGAGC	36872

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9395	1635	CUCCAAGG G AGGUGAG	15138	CUCAACCU GGAGGAAACUCCUUAAGGACAUCGUCGGG	CCUUGGAG	36873
9397	1633	CCAAGGA G GUUGAGGU	15139	ACCUCAAC GGAGGAAACUCCUUAAGGACAUCGUCGGG	UCCCUUGG	36874
9401	1629	GGAGGUU G AGGUCCAU	15140	AUGGACCU GGAGGAAACUCCUUAAGGACAUCGUCGGG	AACCUCC	36875
9403	1627	GAGGUUA G GUCCAUGA	15141	UCAUGGAC GGAGGAAACUCCUUAAGGACAUCGUCGGG	UCAACCU	36876
9410	1620	AGGUCCAU G AACCAUC	15142	GAGUGGUU GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUGGACCU	36877
9421	1609	CCACUCAC G AUGGACCA	15143	UGGUCCAU GGAGGAAACUCCUUAAGGACAUCGUCGGG	GUGAGUGG	36878
9424	1606	CUCACGAC G GACCAAGA	15144	UCUUGGUC GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUCGUGAG	36879
9425	1605	UCACGAUG G ACCAAGAA	15145	UUCUUGGU GGAGGAAACUCCUUAAGGACAUCGUCGGG	CAUCGUGA	36880
9431	1599	UGGACCAA G AACGUCUU	15146	AAGACGUU GGAGGAAACUCCUUAAGGACAUCGUCGGG	UUGGUCCA	36881
9470	1560	UAUGCAUU G GUGUCAU	15147	AUUGACAC GGAGGAAACUCCUUAAGGACAUCGUCGGG	AAUGCAUA	36882
9483	1547	CAUCCUU G ACCGUGGU	15148	ACCACGGU GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGGGAUUG	36883
9489	1541	CUGACCGU G GUUCACAG	15149	CUGUGAAC GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACGGUCAG	36884
9540	1490	GUUGUAU G AAGCGGCC	15150	GGCGCTUU GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUACACAC	36885
9543	1487	UGUAUGAA G GCGCCGCA	15151	UGC GGCGC GGAGGAAACUCCUUAAGGACAUCGUCGGG	UUCAUACA	36886
9552	1478	GGCCCGCA G GAGUGAUG	15152	CAUCACUC GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGC GGCGC	36887
9553	1477	CGCCGCG G AGUGAUGC	15153	GCAUCACU GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGC GGCGC	36888
9557	1473	GCAGGAGU G AUGCUGAA	15154	UUCAGCAU GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACUCCUGC	36889
9563	1467	GUGAUCU G AAUCUCCC	15155	GGGAGAUU GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGCAUCAC	36890
9577	1453	CCUGCCU G AGUGGCUC	15156	GAGCCACU GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGGCAGGG	36891
9581	1449	GCUGAGU G GCUCCAAC	15157	GUUGGAGC GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACUCAGGC	36892
9596	1434	ACUUGUU G GAGUAGUU	15158	AACUACUC GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACACAGGU	36893
9597	1433	CCUGUGUG G AGUAGUUU	15159	AAACUACU GGAGGAAACUCCUUAAGGACAUCGUCGGG	CACACAGG	36894
9612	1418	UUCCGUGC G ACUCCACA	15160	UGUGGAGU GGAGGAAACUCCUUAAGGACAUCGUCGGG	GCACGGAA	36895
9627	1403	CAGUAGUU G GUCCAUGG	15161	CCAUGGAC GGAGGAAACUCCUUAAGGACAUCGUCGGG	AACUACUG	36896
9634	1396	UGGUCCAU G GACAAAAA	15162	UUUUUGUC GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUGGACCA	36897
9635	1395	GUCCAUU G ACAAAAAU	15163	AUUUUUGU GGAGGAAACUCCUUAAGGACAUCGUCGGG	CAUGGACC	36898
9644	1386	ACAAAAU G GCCACUUC	15164	GAAGUGGC GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUUUUUGU	36899
9659	1371	UCGUACUU G AUUUUCUC	15165	GAGAAUUA GGAGGAAACUCCUUAAGGACAUCGUCGGG	AAGUACGA	36900
9674	1356	UCUUUCAA G AUGGUUCU	15166	AGAACCAU GGAGGAAACUCCUUAAGGACAUCGUCGGG	UUGAAAGA	36901
9677	1353	UUCAGAU G GUUCUUC	15167	GGAAGAAC GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUCUUGAA	36902
9695	1335	AUUGCCUU G GUAGAGCA	15168	UGCUCUAC GGAGGAAACUCCUUAAGGACAUCGUCGGG	AAGGCAAU	36903
9699	1331	CUUUGGUA G AGCAGGCA	15169	UGCCUGCU GGAGGAAACUCCUUAAGGACAUCGUCGGG	UACCAAGG	36904
9704	1326	GUAGAGCA G GCAAAUUU	15170	AAAUUUGC GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGCUCUAC	36905
9713	1317	GCAAAUUU G GCGCAUGU	15171	ACAUGGCG GGAGGAAACUCCUUAAGGACAUCGUCGGG	AAAUUUGC	36906
9801	1229	CAAAGCU G GUUCAGCA	15172	UGCUGACC GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGCUUUUG	36907
9802	1228	AAAAGCUG G GUCAGCAC	15173	GUGCUGAC GGAGGAAACUCCUUAAGGACAUCGUCGGG	CAGCUUUU	36908
9823	1207	GUCAUUGU G AGCUUCUC	15174	GAGAAGCU GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACAAUGAC	36909
9836	1194	UCUCCCAU G GUCGGGCA	15175	UGCCCGAC GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUGGGAGA	36910
9840	1190	CCAUGGUC G GGCAGGCA	15176	UGCGUGCC GGAGGAAACUCCUUAAGGACAUCGUCGGG	GACCAUGG	36911
9841	1189	CAUGGUCG G GCAGGAG	15177	CUGCGUGC GGAGGAAACUCCUUAAGGACAUCGUCGGG	CGACCAUG	36912

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9854	1176	GCAGCUU G GUGGAGG	15178	CUCUCCAC	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AAAGCUGC	36913
9857	1173	GCUUGGU G GAGGAUC	15179	GAUCUCUC	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	ACCAAAGC	36914
9858	1172	CUUUGGU G AGAGAUC	15180	CGAUCUCU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	CACCAAG	36915
9860	1170	UUGGUGG G AGAUCGU	15181	AGCGAUCU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UCCACCAA	36916
9862	1168	GUUGGAG G AUCGUGA	15182	UCAGCGAU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UCUCCACC	36917
9869	1161	AGAUCGU G ACGUAGC	15183	GCUACCGU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AGCGAUCU	36918
9872	1158	UCGUGAG G GUAGCCAA	15184	UUGGCUAC	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	GUCAGCGA	36919
9895	1135	AUAACUG G GACUCUG	15185	CAGAGGUC	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	GCAGUUAU	36920
9896	1134	UAACUGG G ACCUCUG	15186	GCAGAGGU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	CGCAGUUA	36921
9907	1123	CUCUGCA G GUUGACG	15187	CGGUAAC	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UGGCAGAG	36922
9911	1119	GCAGGUU G ACGGCUU	15188	GAGCGGU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AACCUGGC	36923
9941	1089	UUCACAU G AUGGUAG	15189	CUUACCAU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	GAUGUGAA	36924
9944	1086	ACAUUGA G GUAGGUU	15190	AAGCUUAC	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AUCGAUGU	36925
9948	1082	CGAUGUA G GCUUGUC	15191	GGACAAGC	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UACCAUCG	36926
9960	1070	UGUCCUA G ACAUGAU	15192	UAUCAUGU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UAAGGACA	36927
9965	1065	UUGACAU G AUGUCAC	15193	GUGACUUA	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AUGUCUUA	36928
9989	1041	UGGCCUUC G AGAACCA	15194	UUGGUUCU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	GAAGCGCA	36929
9991	1039	GCCUUGA G AACCAAU	15195	AUUUGGUU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UCGAAGGC	36930
10017	1013	UUGCUCA G ACACUCU	15196	AGGAGUGU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UGGAGCAA	36931
10031	999	CCUCCNA G AAGUCUCU	15197	AGAGACUU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UUGGAAGG	36932
10054	976	CAUCCCA G GCAGUGA	15198	UCAACUCG	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UUGGAAUG	36933
10061	969	AGGCAUU G AAGCUGA	15199	UACAGCUU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AACUGCCU	36934
10074	956	UGUAAGU G GGGCCAC	15200	GGUGGCC	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AGCUUACA	36935
10075	955	GUAAGUG G GGCACCA	15201	UGGUGGCC	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	CAGCUUAC	36936
10076	954	UAAGCUG G GCCACCA	15202	UUGGUGGC	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	CCAGCUUA	36937
10097	933	AUAAGCA G ACAACAC	15203	GUGUUGU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	GUGCUUAU	36938
10118	912	CUCUGAU G GUGUUGU	15204	AGCAACAC	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AUGCAGAG	36939
10145	885	CAACCAU G ACGGCUG	15205	GCAGCCGU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AUUGGUUG	36940
10148	882	CAAUAGC G GCUGCCAC	15206	GUGGCAGC	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	GUCAUUGG	36941
10159	871	UGCCACCA G GCAUAUC	15207	GAUAUGCC	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UGGUGGCA	36942
10160	870	GCCACCA G GCAUAUC	15208	GGUAUUGC	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	CUGGUGGC	36943
10170	860	CAUAUCCA G GGUUCCUC	15209	GAGGAACC	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UGGAUAUG	36944
10171	859	AUAUCCAG G GUUCCUA	15210	UGAGGAAC	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	CUGGAUAU	36945
10181	849	UUCUCAA G AUCCAUGA	15211	UCAUGGAU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UUGAGGAA	36946
10188	842	AGAUCCAU G AUUCUGU	15212	AACAGAAU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AUGGAUCU	36947
10214	816	UACCUUGU G GCCUUGU	15213	ACCAAGGC	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	ACAAGGUA	36948
10220	810	GUGGCCUU G GUGCUGUC	15214	GACAGCAC	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	AAGGCCAC	36949
10255	775	GUGGCUA G AGUGUUU	15215	AAAGCACU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	UAGCGAAC	36950
10287	743	CUGUCAGU G ACCUCGA	15216	UCGGAGGU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	ACTUGACAG	36951
10294	736	UGACCUCC G ACUGGUC	15217	GACGCAGU	GGAGGAAACUCCUUCAGGACAUCGUCGCGG	GGAGGUCA	36952

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10305	725	UGCUCUU G AGUGGCGU	15218	ACGCCACU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	AAGACGCA	36953
10309	721	UCUUGAGU G GCGUGUCU	15219	AGACACGC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	ACUCAAGA	36954
10319	711	CGUGUCUU G GUGCAUCU	15220	AGAUGCAC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	AAGACACG	36955
10337	693	CCAUACCU G ACGUAGAC	15221	GUCUACGU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	AGGUAUGG	36956
10343	687	CUGAGCUA G ACUGCUGA	15222	UCAGCAGU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	UAGCUCAG	36957
10350	680	AGACUGCU G ACUUGUG	15223	CACAAAGU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	AGCAGUCU	36958
10370	660	CAACAGUC G AUGUCUUC	15224	GAAGACAU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	GACUGUUG	36959
10380	650	UGUCUUCU G GAUCAUUA	15225	UAAUGAUC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	AGAAGACA	36960
10381	649	GUCUUCUG G AUCAUUAU	15226	GUAAUGAU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	CAGAAGAC	36961
10395	635	UACCAGCC G ACAGCACU	15227	AGUGCUGU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	GGCUGGUA	36962
10404	626	ACAGCACU G GGCAUUA	15228	UGAAUGCC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	AGUGCUGU	36963
10405	625	CAGCACUG G GCAUUAU	15229	AUGAAUGC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	CAGUGCUG	36964
10418	612	UCAUAAGU G AUAUAUUC	15230	GAUACUUA	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	ACUUAUGA	36965
10457	573	AUUGCUCU G ACAUUGCA	15231	UGCAUUGU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	AGAGCAAU	36966
10468	562	AUUGCAUA G GUUCUUCU	15232	GAAGAAC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	UAUGCAUU	36967
10488	542	CAGCUGUU G GUAUCGUG	15233	CACGAUUC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	AACAGCUG	36968
10489	541	AGCUGUUG G AAUCGUGA	15234	UCACGAUU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	CAACAGCU	36969
10496	534	GGAAUCGU G AUGACAUC	15235	GAUGUCAU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	ACGAUUCU	36970
10499	531	AUCGUGAU G ACAUCUGU	15236	ACAGAUGU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	AUCACGAU	36971
10508	522	ACAUCUGU G ACUCACGU	15237	ACUGACGU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	ACAGAUGU	36972
10546	484	CUUCCCUU G GAAGUUAU	15238	CUAACUUC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	AAGGGAAG	36973
10547	483	UUCUUCUG G AAGUUAGA	15239	UCUAAACU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	CAAGGGAA	36974
10554	476	GGAGUUAU G AGAGGGUA	15240	UACCCUUC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	UAACUUCU	36975
10556	474	AAGUUAUA G AGGUAUAC	15241	GUUACCCU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	UCUAAACU	36976
10558	472	GUUAGAGA G GGUAAACU	15242	CAGUUAAC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	UCUCUAAU	36977
10559	471	UUAAGAGG G GUAAACUG	15243	GCAGUUAU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	CUCUCUAA	36978
10577	453	CCUACGCU G GCGAUCAG	15244	CUGAUCGC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	AGCGUAGG	36979
10580	450	ACGUGGCC G AUCAGGCC	15245	GGCCUGAU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	GCCAGCGU	36980
10585	445	GGGGAUCA G GCCAAUCA	15246	UGAUUGGC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	UGAUCGCC	36981
10595	435	CCAAUCAU G ACUGCAAU	15247	AUUGCAGU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	AUGAUUGG	36982
10607	423	GCAAUUCC G GUCUUAUC	15248	GGAAAGAC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	GGAAUUGC	36983
10635	395	UUUGUUUU G AGUCCCGC	15249	GCGGAGCU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	AAAACAAA	36984
10645	385	GUUCGCC G AUUGAUAG	15250	CUAUCAAU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	GGCGGAGC	36985
10649	381	CGCGGAUU G AUAGCACU	15251	AGUGCUAU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	AAUCGGCG	36986
10658	372	AUAGCACU G GUCAAGGU	15252	ACCUAGAC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	AGUGCUAU	36987
10664	366	CUGGUCAA G GUCCCUAG	15253	CUAGGAC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	UUGACCCAG	36988
10690	340	AAACUCA G AAGGUGUU	15254	AACACUUU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	UGAGUUUU	36989
10693	337	ACUCAGAA G GUGUUUCA	15255	UGAAACAC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	UUCUGAGU	36990
10732	298	UCUCCAUU G AUCCAGCA	15256	UGCUGGAU	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	GAUGGAGA	36991
10747	283	CACUGCUC G GGUCGGAG	15257	CUCCGACC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCG	GAGCAGUG	36992

Table XII

10748	282	ACUGCUCG G GUCCGAGC	15258	GCUCGAC GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	CGAGCAGU	36993
10752	278	CUCGGGUC G GAGCAU	15259	AAUUGCUC GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	GACCCGAG	36994
10753	277	UCGGGUCG G AGCAUUG	15260	CAAUUGCU GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	CGACCCGA	36995
10766	264	AUUGCUGU G AACUGAA	15261	UUCAGGUU GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	ACAGCAAU	36996
10772	258	GUCAACCU G AAGAACGC	15262	GUGUUCUU GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	AGGUUCAC	36997
10775	255	AACUGAA G AAGGCCAA	15263	UUGGCGUU GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	UUCAGGUU	36998
10784	246	AACGCCAA G AAGGCCAA	15264	UUGGCGUU GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	UUGGCGUU	36999
10786	244	CGCCAGA G AGCCAACA	15265	UUGGCGUU GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	UUGGCGUU	37000
10806	224	AUGUAUU G GCCCUUG	15266	CAAGGGC GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	AAUACGAU	37001
10820	210	UUGCCGUC G AUCAGGUU	15267	AGCCUGAU GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	GACGGCAA	37002
10825	205	GUCAUCA G GCUCAACA	15268	UGUUGAGC GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	UGAUCGAC	37003
10856	174	CCAUAACA G GACAACAC	15269	GUGUUGUC GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	UUGAUUGG	37004
10857	173	CAUAACG G ACAACACG	15270	CGUGUUGU GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	CUUGAUUG	37005
10867	163	CAACACG G GGGCAUUC	15271	GAAUGCCC GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	GCGUGUUG	37006
10868	162	AACACGG G GGAUUCU	15272	GGAAUGCC GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	CGCGUGUU	37007
10869	161	ACAGCGG G GCAUUCG	15273	CGGAAUUC GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	CCGCGUGU	37008
10892	138	AGCAUAU G ACAGCCCG	15274	CGGGCUGU GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	AAUAUGCU	37009
10900	130	GACAGCC G GCUUUGC	15275	GCAAGAGC GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	GGGCUUGC	37010
10910	120	CUCUUGC G GGCCUUC	15276	GGAGGGCC GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	GGCAAGAG	37011
10911	119	UCUUGCC G GCCUUCU	15277	AGGAGGCC GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	CGGCAAGA	37012
10920	110	GCCUUCU G GUUUCUA	15278	UAAGAAAC GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	AGGAGGGC	37013
10929	101	GUUUCUA G ACAUCGAG	15279	CUCGAUGU GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	UAAGAAAC	37014
10935	95	UAGACAUC G AGAUUCU	15280	GAGAUCU GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	GAUGUCUA	37015
10937	93	GACAUGA G AUCUUGU	15281	ACGAAGAU GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	UCGAUGUC	37016
10951	79	CGUGCUA G AAACAGCU	15282	AGCUGUUU GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	UUAGCACG	37017
11019	11	CUCACACA G GCGAACUA	15283	UAGUUGC GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG	UGUGUGAG	37018

Input Sequence = AF196835_rc. Cut Site = G/.

Arm Length = 8. Core Sequence = GGAGGAACUCCCUUCAAAGGACAUCGUCGCGG

AF196835_rc reverse complement of West Nile virus strain NY99-Flamingo382-99, complete

genome

Table XIII

Table XIII: WNV Enzymatic Nucleic Acid and Target Sequence

P S	Substrate	Seq ID	Alias	Enzymatic Nucleic Acid	RPI #	S q ID
698	GUCAGGU A UGGAAGA	15284	WNV-698 Rz-7 Ome stabl	ucuuca CUGAUGAGGCCGUUAGGCCGAA Accugac B	23047	37019
3021	AGAUAU U GGAACGG	15285	WNV-3021 Rz-7 Ome stabl	cguuucc CUGAUGAGGCCGUUAGGCCGAA Augaucu B	23048	37020
4082	GGCAGCU U GAUCAGG	15286	WNV-4082 Rz-7 Ome stabl	ccugauc CUGAUGAGGCCGUUAGGCCGAA Agcugcc B	23049	37021
7400	CCAGAAU U AGAGCGC	15287	WNV-7400 Rz-7 Ome stabl	ggcgucu CUGAUGAGGCCGUUAGGCCGAA Auucugg B	23050	37022
9915	CUCGCAU A UCUCACG	15288	WNV-9915 Rz-7 Ome stabl	cuggaga CUGAUGAGGCCGUUAGGCCGAA Augcgag B	23051	37023
256	GGCGUUC U UCAGGUU	15289	WNV-256 CHz-7 Ome stabl	aaccuga CUGAUGAGGCCGUUAGGCCGAA Iaaccgc B	23052	37024
1488	CGCGGCC U UCAUACA	15290	WNV-1488 CHz-7 Ome stabl	uguauga CUGAUGAGGCCGUUAGGCCGAA Igcgccg B	23053	37025
6802	GCUCUCC C UUCUCUU	15291	WNV-6802 CHz-7 Ome stabl	aagagaa CUGAUGAGGCCGUUAGGCCGAA Igagagc B	23054	37026
7344	CAGCGGC C GGAAUCA	15292	WNV-7344 CHz-7 Ome stabl	ugaaucc CUGAUGAGGCCGUUAGGCCGAA Iccgcug B	23055	37027
9733	GUCCAC U UCCUCAA	15293	WNV-9733 CHz-7 Ome stabl	uugagga CUGAUGAGGCCGUUAGGCCGAA Iuggagc B	23056	37028
1491	CGCCUUC A UACACAC	15294	WNV-1491 Dz-7 stab3	gugugua GGCTAGCTACAACGA gaaggcg B	23057	37029
1562	GACACCA A UGCAUAC	15295	WNV-1562 Dz-7 stab3	guaugca GGCTAGCTACAACGA ugguguc B	23058	37030
3089	AGGCUCA A UGAUACG	15296	WNV-3089 Dz-7 stab3	cguauca GGCTAGCTACAACGA ugagccu B	23059	37031
5582	ACUUCAG A UCCAUC	15297	WNV-5582 Dz-7 stab3	gaaugga GGCTAGCTACAACGA cugaagu B	23060	37032
6823	UGUGCUA A UUCUGA	15298	WNV-6823 Dz-7 stab3	ucaggaa GGCTAGCTACAACGA uagcaca B	23061	37033
415	AAGAGGA G GAAAGAC	15299	WNV-415 Amb.Rz-7 stab3	gucuucc Ggaggaacacuc C UUCAaggacaucgucCGGG uccucu B	23062	37034
2552	GAGGCUU G GAUGGAC	15300	WNV-2552 Amb.Rz-7 stab3	guccauc Ggaggaacacuc C UUCAaggacaucgucCGGG aagccuc B	23063	37035
4097	GAGAAGA G GAGUGCA	15301	WNV-4097 Amb.Rz-7 stab3	ugcacuc Ggaggaacacuc C UUCAaggacaucgucCGGG ucuuuc B	23064	37036
4186	UGCUGCU G GACUGAU	15302	WNV-4186 Amb.Rz-7 stab3	aucaguc Ggaggaacacuc C UUCAaggacaucgucCGGG agcagca B	23065	37037
6577	GAAAGGA G GAAGAGC	15303	WNV-6577 Amb.Rz-7 stab3	gcucuuc Ggaggaacacuc C UUCAaggacaucgucCGGG uccuuuc B	23066	37038
2680	GGAAGCA G UGAAGGA	15304	WNV-2680 Zin.Rz-7 amino stab4	uccuua gccgaaaggGgagugaGGuCu ugcuucc B	23067	37039
3432	CACCACU G CGCUACC	15305	WNV-3432 Zin.Rz-7 amino stab4	gguaagcg gccgaaaggGgagugaGGuCu aguggug B	23068	37040
4044	UGGAUGU U UACAGGA	15306	WNV-4044 Zin.Rz-7 amino stab4	uccugua gccgaaaggGgagugaGGuCu acaucca B	23069	37041
6864	ACAACCA G CUAGCCG	15307	WNV-6864 Zin.Rz-7 amino stab4	cgguuag gccgaaaggGgagugaGGuCu ugguugu B	23070	37042
8962	AGAAGCA G UGAAGA	15308	WNV-8962 Zin.Rz-7 amino stab4	uccucaa gccgaaaggGgagugaGGuCuugcuucc B	23071	37043

Table XIII

Input Sequence = AF196835. Cut Site = UH/.
Arm Length = 8. Core Sequence = CUGAUGAG GCGGUUAGGC CGAA
AF196835 West Nile virus strain NY99-flamingo382-99,
complete genome
lower case = 2'-O-methyl
UPPER CASE = RIBO
BOLD = 2'-amino
B = inverted deoxy abasic
ITALIC = 2'-deoxy

Table XIV

Table XIV: In vitro cleavage data

RPI #	Site/Motif	Enzymatic Nucleic Acid Sequence	Seq ID No.	% cleaved	Substrate	Seq ID N .
23047	WNV-698 Rz-7 Ome stab1	ucuucca CUGAUGAGGCCGguuagggccGAA Accugac B	37019	89.68	GUCAGGU A UGGAAGA B	37056
23048	WNV-3021 Rz-7 Ome stab1	ccguuucc CUGAUGAGGCCGguuagggccGAA Augaucu B	37020	93.10	AGAUCAU U GGAACGG B	37057
23049	WNV-4082 Rz-7 Ome stab1	ccggauc CUGAUGAGGCCGguuagggccGAA Agcugcc B	37021	89.54	GGCAGCU U GAUCAGG B	37058
23050	WNV-7400 Rz-7 Ome stab1	gcgcucu CUGAUGAGGCCGguuagggccGAA Auucugg B	37022	94.82	CCAGAAU U AGAGCGC B	37059
23051	WNV-9915 Rz-7 Ome stab1	cuggaga CUGAUGAGGCCGguuagggccGAA Augcgag B	37023	90.92	CUCGCAU A UCUCAG B	37060
23052	WNV-256 CHz-7 Ome stab1	aaccuga CUGAUGAGGCCGguuagggccGAA Iaacgcc B	37024	90.06	GGCGUUC U UCAGGUU B	37061
23053	WNV-1488 CHz-7 Ome stab1	uguauga CUGAUGAGGCCGguuagggccGAA Igccgcc B	37025	76.12	CGGCGCC U UCAUACA B	37062
23054	WNV-6802 CHz-7 Ome stab1	aagagaa CUGAUGAGGCCGguuagggccGAA Igagagc B	37026	88.59	GCUCUCC C UUCUCUU B	37063
23055	WNV-7344 CHz-7 Ome stab1	ugaaucc CUGAUGAGGCCGguuagggccGAA Iccgcug B	37027	91.26	CAGCGGC C GGAUACA B	37064
23056	WNV-9733 CHz-7 Ome stab1	uugagga CUGAUGAGGCCGguuagggccGAA Iuggagc B	37028	78.91	GCUCCAC U UCCUCA B	37065
23057	WNV-1491 Dz-7 stab3	gugugua GGCTAGCTACAACGA gaaggcg B	37029	72.13	CGCCUUC A UACACAC B	37066
23058	WNV-1562 Dz-7 stab3	guaugca GGCTAGCTACAACGA ugguguc B	37030	86.07	GACACCA A UGCAUAC B	37067
23059	WNV-3089 Dz-7 stab3	cguauca GGCTAGCTACAACGA ugagccu B	37031	87.00	AGGCUCA A UGAUACG B	37068
23060	WNV-5582 Dz-7 stab3	gaugga GGCTAGCTACAACGA cugaagu B	37032	39.77	ACUUCAG A UCCAUC B	37069
23061	WNV-6823 Dz-7 stab3	ucaggaa GGCTAGCTACAACGA uagcaca B	37033	89.13	UGUCUA A UUCUGA B	37070
23062	WNV-415 Amb.Rz-7 stab3	gucuuuc Ggaggaacuc CUUCAaggacaucgucCGGG uccucuu B	37034	24.90	AAGAGGA G GAAAGAC B	37071
23063	WNV-2552 Amb.Rz-7 stab3	guccauc Ggaggaacuc CUUCAaggacaucgucCGGG aagccuc B	37035	53.89	GAGGCUU G GAUGGAC B	37072

400.03

Table XIV

23064	WNV-4097 Amb.Rz-7 stab3	ugracuc GgaggaacucC CUUCaaggacaucgucCGGG ucuuuc B	37036	11.57	GAGAAGA G GAGUGCA B	37073
23065	WNV-4186 Amb.Rz-7 stab3	aucaguc GgaggaacucC CUUCaaggacaucgucCGGG agcagca B	37037	49.54	UGCUGCU G GACUGAU B	37074
23066	WNV-6577 Amb.Rz-7 stab3	gcucuc GgaggaacucC CUUCaaggacaucgucCGGG uccuuuc B	37038	27.23	GAAAGGA G GAAGAGC B	37075
23067	WNV-2680 Zin.Rz-7 amino stab4	uccuuc gcccgaaggGgagugagGGuCu ugcuuuc B	37039	5.20	GGAAGCA G UGAAGGA B	37076
23068	WNV-3432 Zin.Rz-7 amino stab4	gguaagc gcccgaaggGgagugagGGuCu aguggug B	37040	85.91	CACCACU G CGCUACC B	37077
23069	WNV-4044 Zin.Rz-7 amino stab4	uccugua gcccgaaggGgagugagGGuCu acaucca B	37041	80.75	UGGAUGU G UACAGGA B	37078
23070	WNV-6864 Zin.Rz-7 amino stab4	cggcuag gcccgaaggGgagugagGGuCu ugguugu B	37042	16.02	ACAACCA G CUAGCCG B	37079
23071	WNV-8962 Zin.Rz-7 amino stab4	uccucaa gcccgaaggGgagugagGGuCu ugcuuuc B	37043	4.93	AGAAGCA G UUGAAGA B	37080

UPPER CASE = RIBO

Lower case = 2'-O-methyl

Bold = 2'-deoxy-2'-amino

ITALIC = 2'-deoxy

B = inverted deoxybasic

I = Inosine

CLAIMS

1. A nucleic acid molecule that modulates replication of West Nile Virus (WNV).
- 5 2. The nucleic acid molecule of claim 1, wherein said nucleic acid molecule is selected from the group consisting of enzymatic nucleic acid, antisense nucleic acid, 2',5'-A nucleic acid, triplex forming nucleic acid, and decoy nucleic acid molecules.
- 10 3. The nucleic acid molecule of claim 1, wherein said nucleic acid molecule is effective to treat a condition related to WNV infection, wherein said condition is selected from the group consisting of pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma, and cirrhosis.
- 15 4. The nucleic acid molecule of claim 3, wherein said nucleic acid molecule is used in conjunction with one or more other therapies for the treatment of said condition.
5. The nucleic acid molecule of claim 4, wherein said other therapy is selected from the group consisting of antivirals and interferons.
- 20 6. The nucleic acid molecule of claim 1, wherein said nucleic acid molecule is chemically synthesized.
7. The nucleic acid molecule of claim 1, wherein said nucleic acid molecule comprises at least one 2'-sugar modification.
8. The nucleic acid molecule of claim 1, wherein said nucleic acid comprises at least one nucleic acid base modification.
- 25 9. The nucleic acid molecule of claim 1, wherein said nucleic acid comprises at least one phosphate backbone modification.
10. The nucleic acid molecule of claim 1, wherein said nucleic acid molecule comprises at least one 2'-sugar modification and at least one phosphate backbone modification.

11. The nucleic acid molecule of claim 1, wherein said nucleic acid comprises a cap structure, wherein the cap structure is at the 5'-end or 3'-end, or both the 5'-end and the 3'-end.
- 5 12. The nucleic acid molecule of claim 1, wherein said nucleic acid molecule comprises between 12 and 100 bases complementary to a RNA molecule of WNV.
13. The nucleic acid of any of claim 1, wherein said nucleic acid molecule comprises between 14 and 24 bases complementary to a RNA molecule of WNV.
- 10 14. A method of down regulating the replication of WNV in a cell, comprising the step of contacting said cell with the nucleic acid molecule of claim 1, under conditions suitable for said down regulation of WNV replication.
- 15 15. A method of down regulating the replication of WNV in a mammal comprising the step of administering the nucleic acid molecule of claim 1 to the mammal, under conditions suitable for said down regulation of WNV replication.
16. A method of reducing WNV activity in a cell, comprising the step of contacting said cell with the nucleic acid molecule of claim 1, under conditions suitable for said reduction of WNV activity.
- 20 17. A method of treating a patient having a condition associated with the level of WNV comprising the step of contacting cells of said patient with the nucleic acid molecule of claim 1, under conditions suitable for said treatment.
18. The method of claim 15 further comprising the use of one or more other therapies under conditions suitable for said treatment.
- 25 19. The method of claim 18, wherein said other therapy is selected from the group consisting of antivirals and interferon.
20. The nucleic acid molecule of claim 2, wherein said enzymatic nucleic acid molecule cleaves RNA derived from WNV.
- 30 21. The nucleic acid molecule of claim 2, wherein said enzymatic nucleic acid molecule cleaves plus strand RNA derived from WNV.

22. The nucleic acid molecule of claim 2, wherein said enzymatic nucleic acid molecule cleaves minus strand RNA derived from WNV.
23. The enzymatic nucleic acid of claim 2 having at least one binding arm wherein the binding arm of said enzymatic nucleic acid molecule comprises
5 a sequence complementary to any of the sequences of SEQ ID NOs 1-15,308.
24. The enzymatic nucleic acid molecule of claim 2, wherein said enzymatic nucleic acid molecule comprises any of the sequences of SEQ ID NOs 15,309-37,043.
- 10 25. The antisense nucleic acid molecule of claim 2, wherein said antisense nucleic acid molecule inhibits the activity of RNA derived from WNV.
26. The antisense nucleic acid molecule of claim 25, wherein said antisense nucleic acid molecule inhibits the activity of plus strand RNA derived from WNV.
- 15 27. The nucleic acid molecule of claim 25, wherein said antisense nucleic acid molecule inhibits the activity of minus strand RNA derived from WNV.
28. The antisense nucleic acid molecule of claim 2, wherein said antisense nucleic acid molecule comprises a sequence complementary to any of the sequences of SEQ ID NOs 1-15,308.
- 20 29. An enzymatic nucleic acid molecule that cleaves RNA derived from the WNV.
30. The enzymatic nucleic acid molecule of claim 2 or claim 29, wherein said enzymatic nucleic acid molecule is selected from the group consisting of Hammerhead, Inozyme, G-cleaver, DNAzyme, Amberzyme and Zinzyme.
- 25 31. The enzymatic nucleic acid molecule of claim 2 or claim 29, wherein said enzymatic nucleic acid molecule is in a hairpin, hepatitis Delta virus, group I intron, VS nucleic acid, or RNase P nucleic acid motif.
32. The enzymatic nucleic acid molecule of claim 30, wherein said Hammerhead motif comprises a sequence complementary to any of the substrate sequences
30 in Tables III and VIII.

33. The enzymatic nucleic acid molecule of claim 30, wherein said Inozyme motif comprises a sequence complementary to any of the substrate sequences in Tables IV and IX.
- 5 34. The enzymatic nucleic acid molecule of claim 30, wherein said DNAzyme comprises a sequence complementary to any of the substrate sequences in Tables VI and XI.
35. The enzymatic nucleic acid molecule of claim 30, wherein said Zinzyme comprises a sequence complementary to any of the substrate sequences in Tables V and X.
- 10 36. The enzymatic nucleic acid molecule of claim 30, wherein said Amberzyme comprises sequences complementary to any substrate sequences in Tables VII and XII.
- 15 37. The enzymatic nucleic acid molecule of claim 30, wherein said Hammerhead comprises at least five ribose residues, at least ten 2'-*O*-methyl modifications, and a 3'- end modification.
38. The enzymatic nucleic acid molecule of claim 37, wherein said Hammerhead further comprises phosphorothioate linkages on at least three of the 5' terminal nucleotides.
- 20 39. The enzymatic nucleic acid molecule of claim 37, wherein said 3'- end modification is a 3'-3' inverted abasic moiety.
40. The enzymatic nucleic acid molecule of claim 30, wherein said Inozyme comprises at least five ribose residues, at least ten 2'-*O*-methyl modifications, and a 3'- end modification.
- 25 41. The nucleic acid molecule of claim 40, wherein said Inozyme further comprises phosphorothioate linkages on at least three of the 5' terminal nucleotides.
42. The nucleic acid molecule of claim 40, wherein said a 3'- end modification is 3'-3' inverted abasic moiety.
- 30 43. The enzymatic nucleic acid molecule of claim 30, wherein said DNAzyme comprises at least ten 2'-*O*-methyl modifications.

44. The enzymatic nucleic acid molecule of claim 43, wherein said DNAzyme further comprises phosphorothioate linkages on at least one of the 5' terminal nucleotides.
- 5 45. The enzymatic nucleic acid molecule of claim 44, wherein said DNAzyme further comprises a 3'-end modification.
46. The enzymatic nucleic acid molecule of claim 45, wherein said 3'- end modification is a 3'-3' inverted abasic moiety.
47. The antisense nucleic acid molecule of claim 2, wherein said antisense nucleic acid molecule comprises at least ten 2'-O-methyl modifications.
- 10 48. The antisense nucleic acid molecule of claim 2, wherein said antisense nucleic acid molecule comprises a region that is an RNase H activating region.
49. The nucleic acid molecule of claim 48, wherein said RNase H activating region comprises a region having at least five deoxyribonucleotides.
- 15 50. The nucleic acid molecule of claim 49, wherein said RNase H activating region further comprises one or more phosphate backbone modification.
51. The nucleic acid molecule of claim 50, wherein said phosphate backbone modification is a phosphorothioate or phosphorodithioate modification.
- 20 52. The antisense nucleic acid molecule of claim 2, wherein said antisense nucleic acid molecule comprises an RNase H activating region and a non-RNase H activating region.
53. The antisense nucleic acid molecule of claim 2, wherein said antisense nucleic acid molecule comprises a 5'-end modification, a 3'-end modification or both a 5'-end and a 3'-end modification.
- 25 54. The antisense nucleic acid molecule of claim 53, wherein said 3'- end modification is selected from the group consisting of 3'-3' inverted abasic moiety, 3'-3' inverted nucleotide moiety, and phosphate backbone modification.
- 30 55. The antisense nucleic acid molecule of claim 53, wherein said 5'-end modification is selected from the group consisting of 5',5'-inverted abasic

moiety, 5'-5' inverted nucleotide moiety, and phosphate backbone modification.

56. A method of cleaving WNV RNA comprising contacting the enzymatic nucleic acid molecule of claim 2 or claim 29 with said RNA under conditions suitable for the cleavage of said RNA.
57. The method of claim 56, wherein said cleavage is carried out in the presence of a divalent cation.
58. The method of claim 57, wherein said divalent cation is Mg^{2+} .
59. An expression vector comprising nucleic acid sequence encoding at least one nucleic acid molecule of claim 1, in a manner that allows expression of that nucleic acid molecule.
60. The expression vector of claim 59, wherein said nucleic acid molecule is an enzymatic nucleic acid molecule.
61. The expression vector of claim 59, wherein said expression vector further comprises a sequence for an antisense nucleic acid molecule complementary to the RNA of WNV genome.
62. The expression vector of claim 59, wherein said expression vector comprises sequence encoding at least two said nucleic acid molecules that can be same or different.
63. The expression vector of claim 62, wherein one said nucleic acid molecule comprises sequence encoding at least one antisense nucleic acid molecule complementary to RNA derived from the WNV.
64. The expression vector of claim 62, wherein one said nucleic acid molecule comprises at least one sequence encoding an enzymatic nucleic acid molecule complementary to RNA derived from the WNV.
65. A pharmaceutical composition comprising the nucleic acid molecule of claim 1 in a pharmaceutically acceptable carrier.
66. A kit for the treatment of patients infected with WNV comprising the nucleic acid molecule of claim 1.

67. A kit for detecting WNV in a system comprising the nucleic acid molecule of claim 1.
68. A method of administering to a cell the nucleic acid molecule of claim 1 comprising contacting said cell with the nucleic acid molecule under
5 conditions suitable for said administration.
69. The method of claim 68, wherein said cell is a mammalian cell.
70. The method of claim 69, wherein said cell is a human cell.
71. The method of claim 68, wherein said administration is in the presence of a delivery reagent.
- 10 72. The method of claim 71, wherein said delivery reagent is a lipid.
73. The method of claim 72, wherein said lipid is a cationic lipid.
74. The method of claim 72, wherein said lipid is a phospholipid.
75. The method of claim 71, wherein said delivery reagent is a liposome.

[illegible]

Figure 2: 2'-O-Me substituted Amberzyme Enzymatic Acid Motif

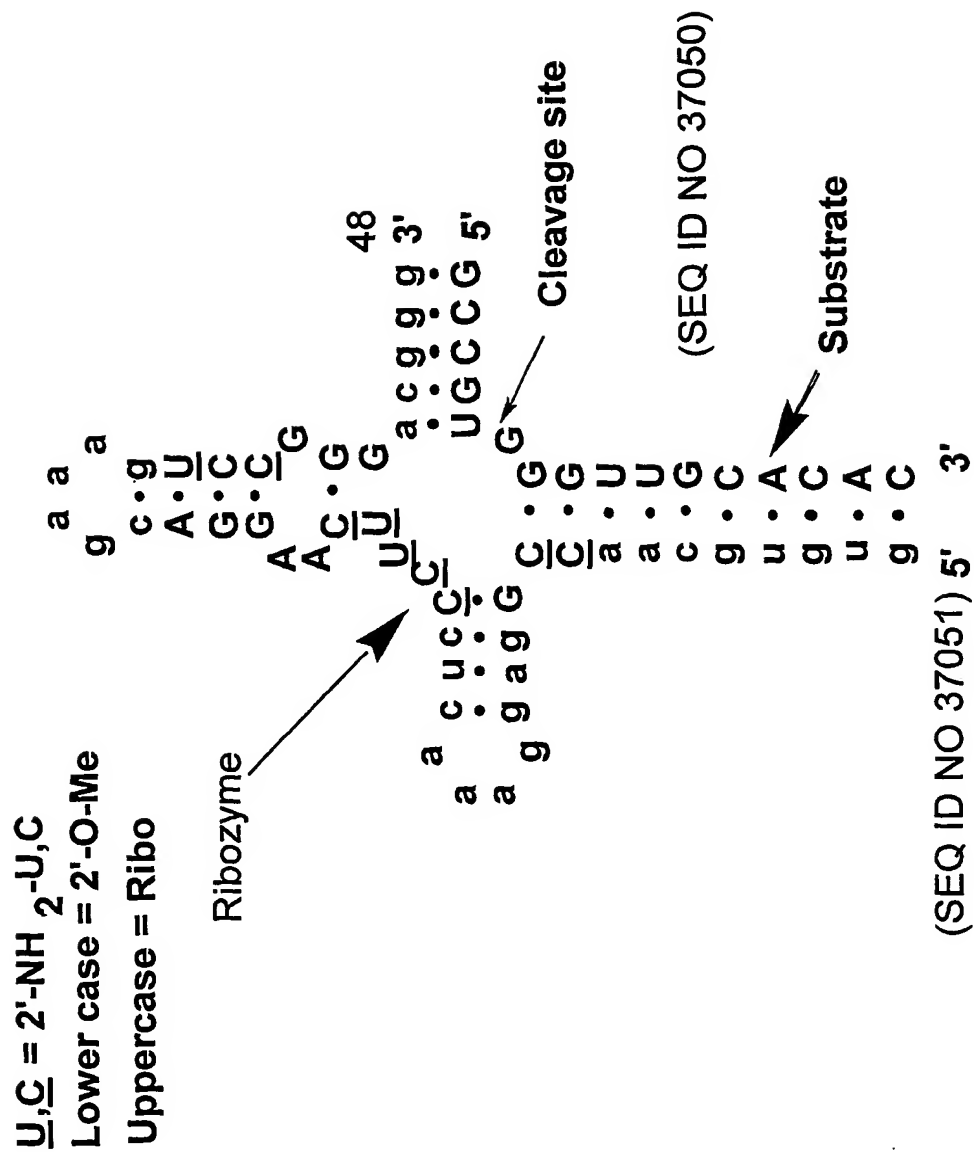
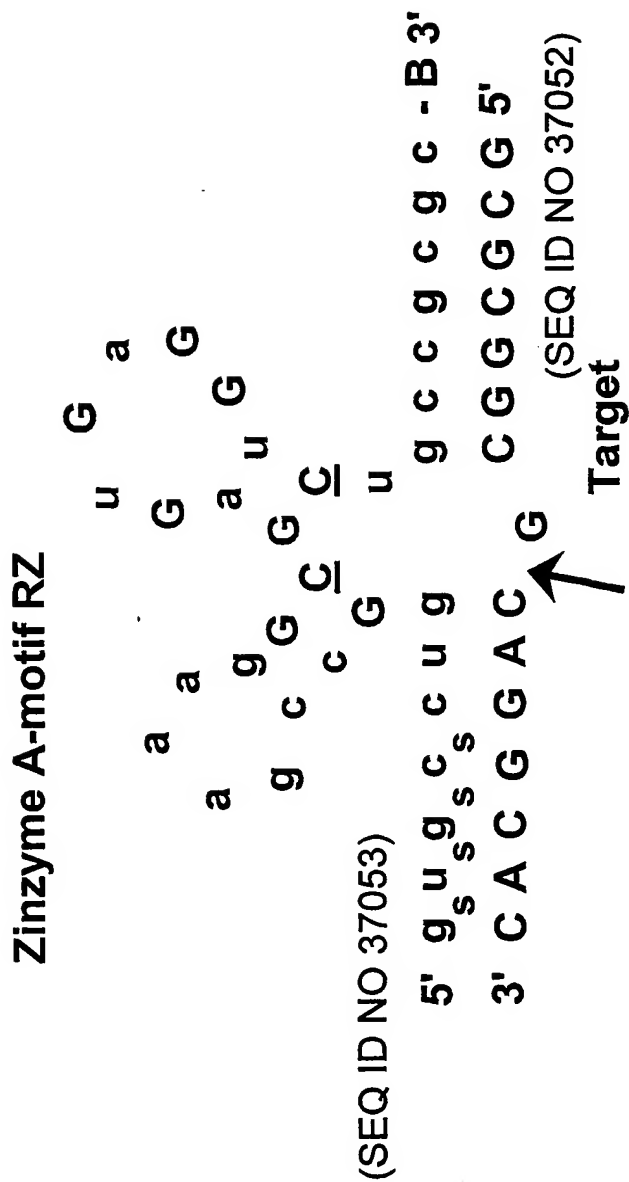


Figure 3: Stabilized Zinzyme Ribozyme Motif



Legend

Uppercase indicates natural ribo residues

C indicates 2' - d-NH₂-C

Lowercase: 2'-O-Me

Subscript s indicates phosphothioate linkage

B: 3'- 3' abasic moiety

